

The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1993

Technical Paper No. 233

Part 2

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**Final Report for Year Two
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Division of Subsistence
Juneau, Alaska
July 1994**

Frontispiece. Brown bear crest hat. Sitka (Tlingit), ornamented with whiskers from the Steller sea lion. The brown bear and sea lion are crests of several Tlingit clans in southeast Alaska. The wood hat is painted in red, light blue, and black, with abalone eyes and opercula teeth. The hat was worn by Tlingit nobility at potlatches. Basketry cylinders at the top were added at times the crest hat was ceremonially presented and validated. Collected 186768, 69-30-10/1599. Photo courtesy Peabody Museum of Archaeology and Ethnology, Harvard University.

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**APPENDIX C
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA LION
BY COMMUNITY**

**Harbor Seal (*Phoca vitulina*)
Harvest and Take Estimates, 1993**

SOUTHEAST ALASKA

PAGE	COMMUNITY
4-5	Angoon
8-9	Craig
12-13	Haines
16-17	Hoonah
20-21	Hydaburg
24-25	Juneau
28-29	Kake
32-33	Ketchikan
36-37	Klawock
40-41	Klukwan
44-45	Pelican
48-49	Petersburg
52-53	Saxman
56-57	Sitka
60-61	Wrangell
64-65	Yakutat

NORTH PACIFIC RIM

PAGE	COMMUNITY
70-71	Chenega Bay
74-75	Cordova
78-79	Nanwalek
82-83	Port Graham
86-87	Seldovia
90-91	Seward
94-95	Tatitlek
98-99	Valdez

UPPER KENAI-COOK INLET

PAGE	COMMUNITY
104-105	Anchorage
108-109	Homer
112-113	Kenai

KODIAK ISLAND

PAGE	COMMUNITY
118-119	Akhiok
122-123	Karluk
128-129	Kodiak City
130-131	Larsen Bay
134-135	Old Harbor
138-139	Ouzinkie
142-143	Port Lions

APPENDIX C CONTINUED
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA UON
BY COMMUNITY

Harbor Seal (*Phoca vitulina*)
Harvest and Take Estimates, 1993

SOUTH ALASKA PENINSULA

PAGE	COMMUNITY
148-149	Chignik Bay
152-1	53 Chignik Lagoon
156-1	57 Chignik Lake
160-161	False Pass
164-1	65 Ivanof Bay
168-169	King Cove
172-1	73 Perryville
176-1	77 Sand Point

ALEUTIAN ISLANDS

PAGE	COMMUNITY
182-1	83 Akutan
186-187	Atka
190-191	Nikolski
194-195	Unalaska

PRIBILOF ISLANDS

PAGE	COMMUNITY
200-201	Saint George
204-205	Saint Paul

SOUTH BRISTOL BAY

PAGE	COMMUNITY
210-211	Egegik
214-215	King Salmon
218-219	Levelock
222-223	Naknek
226-227	Pilot Point
230-231	Port Heiden
234-235	South Naknek

NORTH BRISTOL BAY

PAGE	COMMUNITY
242-243	Aleknagik
250-251	Clark's Point
258-259	Dillingham
266-267	Manokotak
274-275	Togiak

APPENDIX C CONTINUED
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA LION
BY COMMUNITY

Harbor Seal and Spotted Seal
Harvest and Take Estimates, 1993

NORTH BRISTOL BAY

PAGE	COMMUNITY
240-241	Aleknagik
248-249	Clark's Point
256-257	Dillingham
264-265	Manokotak
272-273	Togiak

Spotted Seal (*Phoca largha*)
Harvest and Take Estimates, 1993

NORTH BRISTOL BAY

PAGE	COMMUNITY
244-245	Aleknagik
252-253	Clark's Point
260-261	Dillingham
268-269	Manokotak
276-277	Togiak

Sea Lion (*Eumetopias jubatus*)
Harvest and Take Estimates, 1993

SOUTHEAST ALASKA

PAGE	COMMUNITY
2-3	Angoon
6-7	Craig
10-11	Haines
14-15	Hoonah
18-19	Hydaburg
22-23	Juneau
26-27	Kake
30-31	Ketchikan
34-35	Klawock
38-39	Klukwan
42-43	Pelican
48-47	Petersburg
50-51	Saxman
54-55	Sitka
58-59	Wrangell
62-63	Yakutat

APPENDIX C CONTINUED
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA UON
BY COMMUNITY

Sea Lion (*Eumetopias jubatus*)
Harvest and Take Estimates, 1993

NORTH PACIFIC RIM

PAGE	COMMUNITY
68-69	Chenega Bay
72-73	Cordova
76-77	Nanwalek
80-81	Port Graham
84-8s	Seldovia
88-89	Seward
92-93	Tatitlek
96-97	Valdez

UPPER KENAI-COOK INLET

PAGE	COMMUNITY
102-103	Anchorage
106-l 07	Homer
110-111	Kenai

KODIAK ISLAND

PAGE	COMMUNITY
116-117	Akhiok
120-l 21	Karluk
124-125	Kodiak City
128-129	Larsen Bay
132-133	Old Harbor
136-l 37	Ouzinkie
140-141	Port Lions

SOUTH ALASKA PENINSULA

PAGE	COMMUNITY
146-147	Chignik Bay
150-1 51	Chignik Lagoon
154-155	Chignik Lake
158-159	False Pass
162-l 63	Ivanof Bay
166-167	King Cove
170-l 71	Perryville
174-175	Sand Point

ALEUTIAN ISLANDS

PAGE	COMMUNITY
180-181	Akutan
184-185	Atka
188-i 89	Nikolski
192-193	Unalaska

APPENDIX C CONTINUED
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA LION
BY COMMUNITY

Sea Lion (*Eumetopias jubatus*)
Harvest and Take Estimates, 1993

PRIBILOF ISLANDS

PAGE	COMMUNITY
198-199	Saint George
202-203	Saint Paul

SOUTH BRISTOL BAY

PAGE	COMMUNITY
208-209	Egegik
212-213	King Salmon
216-217	Levelock
220-221	Naknek
224-225	Pilot Point
228-229	Port Heiden
232-233	South Naknek

NORTH BRISTOL BAY

PAGE	COMMUNITY
238-239	Aleknagik
246-247	Clark's Point
254-255	Dillingham
262-263	Manokotak
270-271	Togiak

SOUTHEAST ALASKA

TABLE 1. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ANGOON, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	47	83	130
Surveyed Households	46	30	76
Sampling Fraction	97	36	58.5%
Sample Household Members	206	128	334
Estimated Household Members	210.5	354.1	564.6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON														Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	C	n	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	00	0.0	0.0	00	00	00	00	00	00	00	00	00	00	00	00	
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
Total Take	0.0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	00	0.0	0.0	00	00	0.0	0.0	00	00	00	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	00	00	00	0.0	0.0	00	0.0	00	00	0.0	0.0	0.0	0.0	
Total Take	00	00	00	00	0.0	0.0	0.0	00	00	00	00	0.0	0.0	0.0	0.0	
Total Take (%)	—															
Cumulative Take	0.0	0.0	00	0.0	00	0.0	0.0	00	00	00	0.0	0.0	0.0	0.0	0.0	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

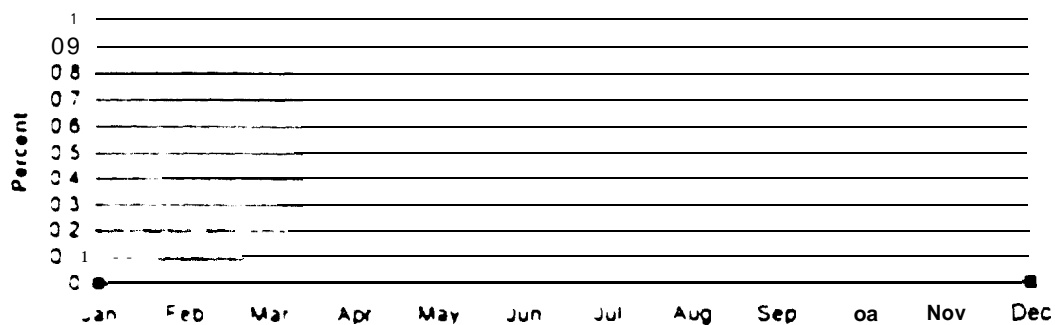
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
Pup Male	0	—	0.0	—
Pup Female	0	—	00	—
Pup Unknown Sex	0	—	00	—
Male Unknown Age	0	—	00	—
Female Unknown Age	0	—	00	—
Unknown Sex • d Age	0	—	0.0	—
Total	0	—	0.0	—

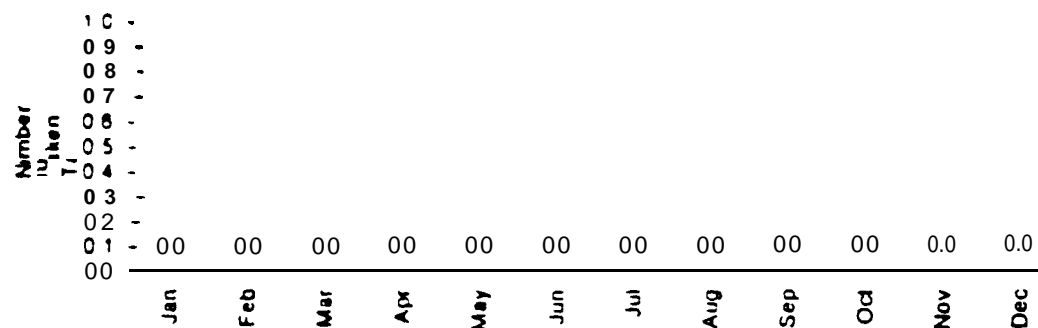
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1994

FIGURE 1. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ANGOON, 1993

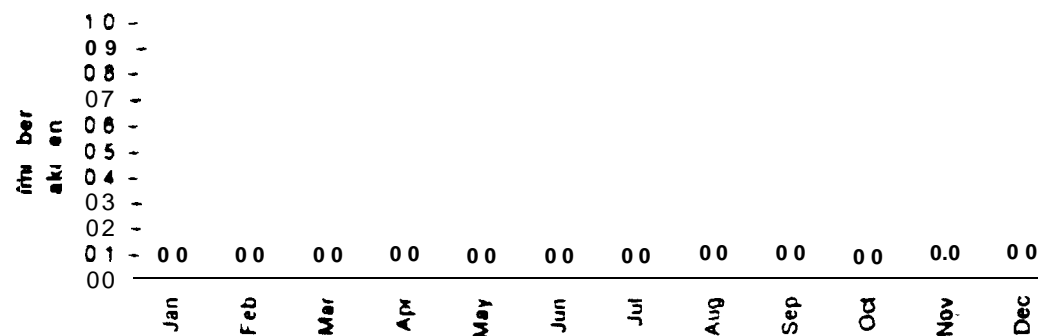
A. Percentage Seasonally Adjusted Take By Month



B Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1994.

TABLE 2. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ANGOON, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	47	83	130
Surveyed Households	46	30	76
Sampling Fraction	97.9%	36.1%	58.5%
Sample Household Members	206	128	334
Estimated Household Members	210.5	354.1	564.6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households.

Used 47.0%
Hunted 252%
Harvested 16.3%
Received 35.2%
Gave Away 16.0%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 56.6
Total Number Struck and Lost 9.9
Total Number Taken 66.5
Number Harvested Per Capita 0.10

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	5	5	5	0	1	1	0	2	19	.	9	0	52	
Struck and Lost	0	0	0	0	0	0	0	1	0	0	2	1	4	8	
Total Take	1	5	5	5	0	1	1	1	2	19	6	10	4	60	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1	.0	5.1	5.1	69	00	1.0	2.8	00	20	19.4	4.1	9.2	0.0	56.6
Struck and Lost	0.0	0.0	00	00	00	0.0	0.0	28	00	00	2.0	1.0	4.1	9.9	
Total Take	1	.0	5.1	5.1	69	00	1.0	20	28	20	19.4	6.1	10.2	4.1	66.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	10	5.1	5.1	6.9	00	1.0	2.8	0.0	20	19.4	4.1	9.2		56.6	
Struck and Lost	00	0.0	00	00	00	0.0	0.0	4.7	00	00	3.1	1.7		9.9	
Total Take	1.0	1.1	5.1	6.9	00	1.0	2.8	4.7	20	19.4	7.6	10.9		66.5	
Total Take (%)	1.5%	7.2%	7.7%	10.3%	0.0%	1.5%	4.2%	7.18%	31%	29.2%	11.4%	16.4%		100%	
Cumulative Take	1.0	6.1	11.2	18.1	18.1	19.1	21.9	26.6	28.6	48.0	55.6	66.5			
Cum. Take (%)	1.58	9.2%	16.9%	27.2%	27.2%	28.7%	32.9%	40.0%	43.0%	72.2%	83.6%	100.0%			

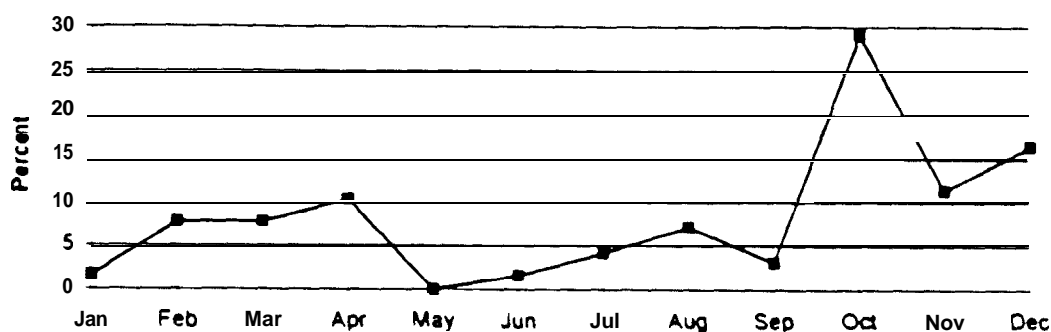
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	29	55.8%	33.1	58.5%
Adult Female	4	7.7%	4.1	7.2%
Adult Unknown Sex	3	5.8%	3.1	5.4%
Juvenile Male	1	1.9%	1.0	1.8%
Juvenile Female	1	1.9%	1.0	1.8%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	14	26.9%	14.3	25.3%
Total	52	100.0%	56.6	100.0%

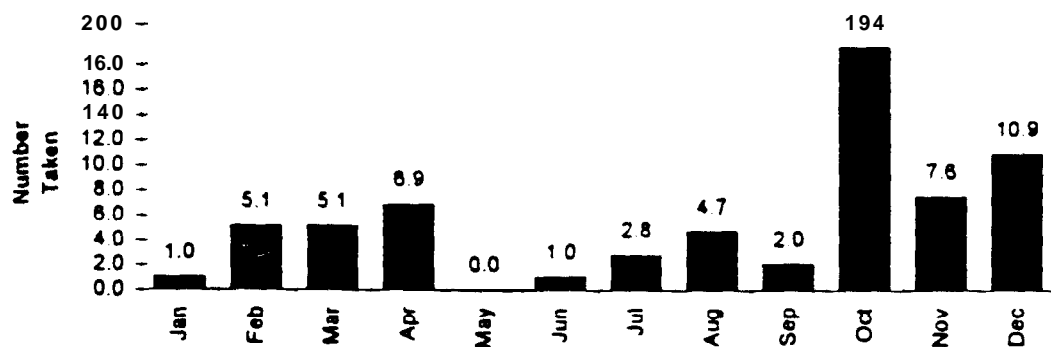
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1994.

FIGURE 2. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ANGOON, 1993

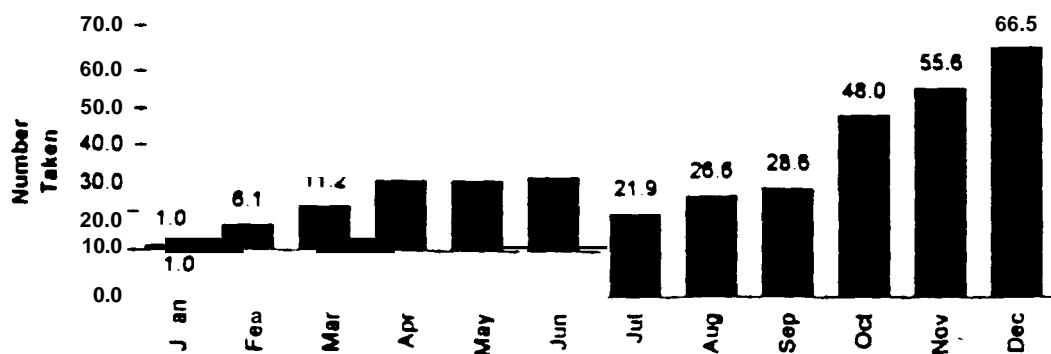
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1994

TABLE 3. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CRAIG, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	25
Surveyed Households	23
Sampling Fraction	92.0%
Sample Household Members	89
Estimated Household Members	96.7

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households			Estimated Community Harvest and Take (Expanded)		
Used	0.0%		Total Number Harvested	0.0	
Hunted	0.0%		Total Number Struck and Lost	0.0	
Harvested	0.0%		Total Number Taken	0.0	
Received	0.0%		Number Harvested Per Capita	N/A	
Gave Away	0.0%				

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	Unknown
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
cum. Take (%)	0.08	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	

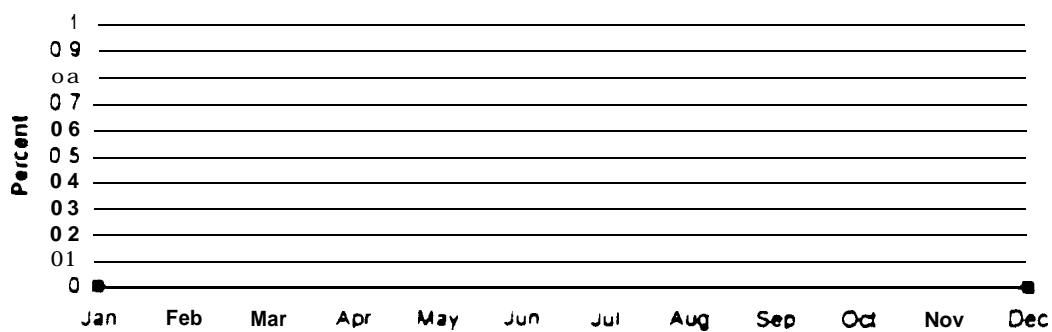
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
	Percent		Percent	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

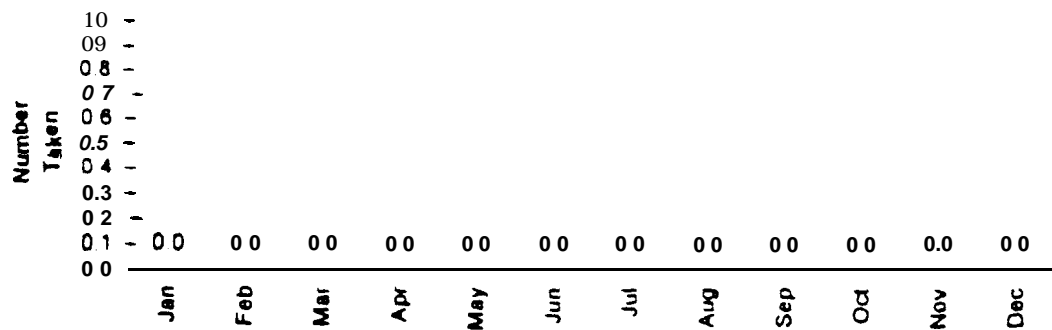
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shear-Seel, Inc., 1994.

FIGURE 3. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CRAIG. 1993

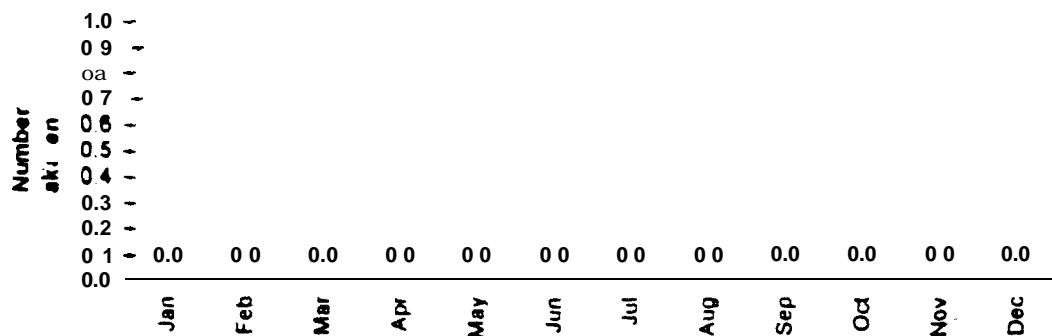
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shear-Seet, Inc., 1994

TABLE 4. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CRAIG, 1993**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households	25
Surveyed Households	23
Sampling Fraction	92.0%
Sample Household Members	89
Estimated Household Members	96.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expanded)
Used 95.7%	Total Number Harvested 51.1
Hunted 80.9%	Total Number Struck and Lost 9.8
Harvested 60.9%	Total Number Taken 60.9
Received 52.2%	Number Harvested Per Capita N/A
Gave Away 56.5%	

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	J	8	13	3	2	0	3	2	1	3	2	2	0	47	
Struck and Lost	1	0	3	1	0	0	0	0	0	1	0	1	2	9	
Total Take	9	J	16	.	2	0	3	2	1	.	2	3	2	56	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	8.7	8.7	14.1	3.3	2.2	0.0	3.3	2.2	1.1	3.3	2.2	2.2	0.0	51.1	
Struck and Lost	1.1	0.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	2.2	9.8	
Total Take	9.8	8.7	17.4	4.3	2.2	0.0	3.3	2.2	1.1	4.3	2.2	3.3	2.2	60.9	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	8.7	8.7	14.1	3.3	2.2	0.0	3.3	2.2	1.1	3.3	2.2	2.2		51.1	
Struck and Lost	1.4	0.0	4.2	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4		9.8	
Total Take	10.1	8.7	18.3	4.7	2.2	0.0	3.3	2.2	1.1	4.7	2.2	3.6		60.9	
Total Take (%)	16.6%	14.3%	30.1%	7.7%	3.6%	0.0%	5.4%	3.6%	1.8%	77%	3.6%	5.91		100%	
Cumulative Take	10.1	18.8	37.1	41.8	43.9	43.9	47.2	49.4	50.5	55.1	57.3	60.9			
cum. Take RI	16.6%	30.9%	61.0%	68.6%	72.2%	72.2%	77.6%	81.1 %	82.9%	90.6%	94.1%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

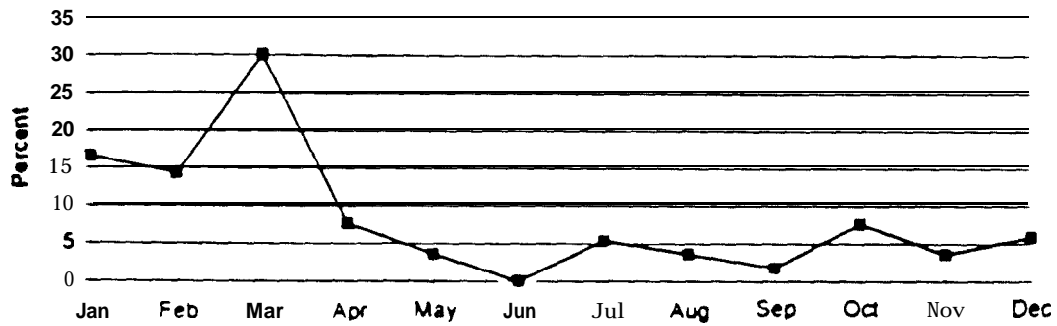
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	27	57.4%	29.3	57.4%
Adult Female	17	34.2%	16.5	36.2%
Adult Unknown Sex	2	4.3%	2.2	4.3%
Jwenik Male	0	0.0%	0.0	0.0%
Juvenile Female	1	2.1%	1.1	2.1%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	47	100.0%	51.1	100.0%

SOURCE

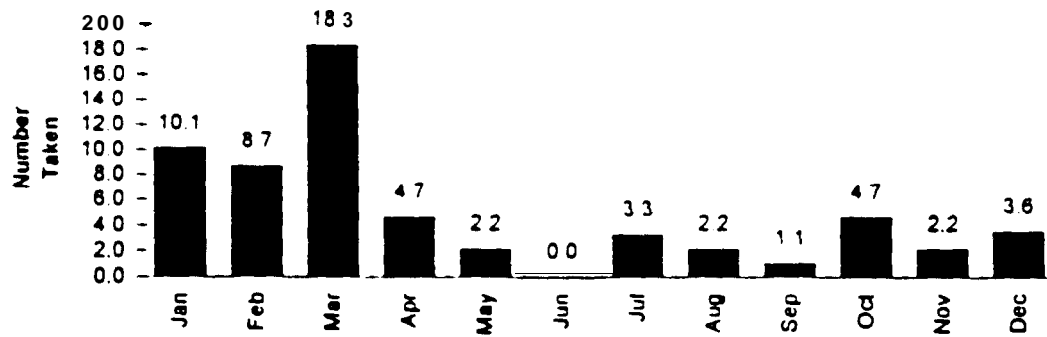
Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shear-Seet, Inc., 1994

FIGURE 4. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CRAIG, 1993

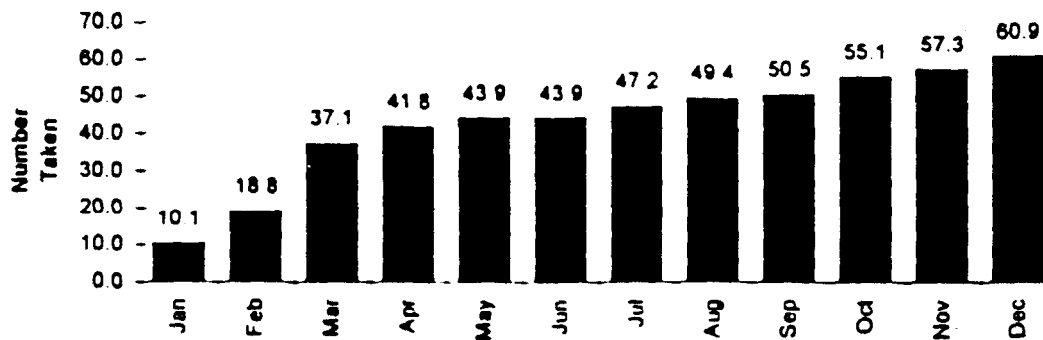
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the City of Craig and Sheen-Seet, Inc., 1994.

TABLE 8. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HAINES, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households	23
Surveyed Households	20
Sampling Fraction	87.0%
Sample Household Members	70
Estimated Household Members	80.5

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households		Estimated Community Harvest and Take (Expanded):	
Used	0.0%	Total Number Harvested	0.0
Mutilated	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	N/A
Gave Away	0.0%		

SEA LION HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	0.0	0.0	00	00
Struck and Lost	00	00	00	00	00	00	00	00	00	0	0.0	0.0	0.0	0.0
Total Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	0.0	00	00	00	0.0	0.0		0.0
Struck and Lost	00	00	00	00	00	00	0.0	0.0	00	0.0	0.0	0.0		0.0
Total Take	00	00	00	00	00	00	0.0	00	00	00	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	00	00	00	00	00	0.0	0.0	00	00	00	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.08	0.0%	0.08		

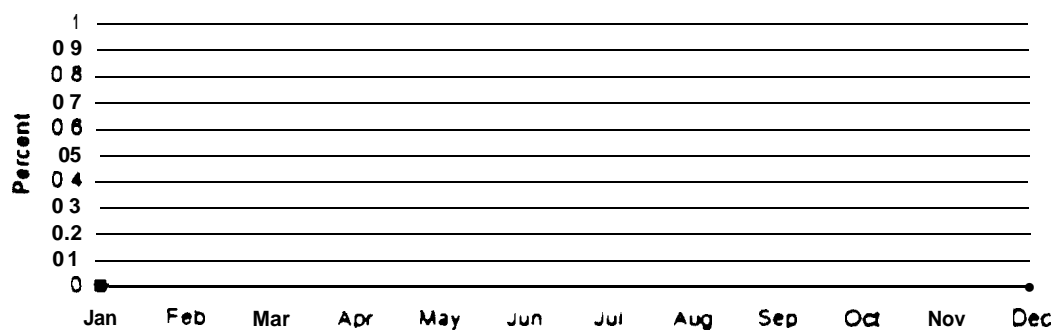
SEA LION HARVEST BY AGE AND SEX

		Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
			Percent		Percent
Adult	Male	0	—	00	—
Adult	Female	0	—	00	—
Adult	Unknown Sex	0	—	00	—
Juvenile	Male	0	—	00	—
Juvenile	Female	0	—	0.0	—
Juvenile	Unknown Sex	0	—	0.0	—
Pup	Male	0	—	0.0	—
Pup	Female	0	—	0.0	—
Pup	Unknown Sex	0	—	0.0	—
Male	Unknown Age	0	—	00	—
Female	Unknown Age	0	—	00	—
Unknown Sex and Age		0	—	00	—
Total		0	—	0.0	—

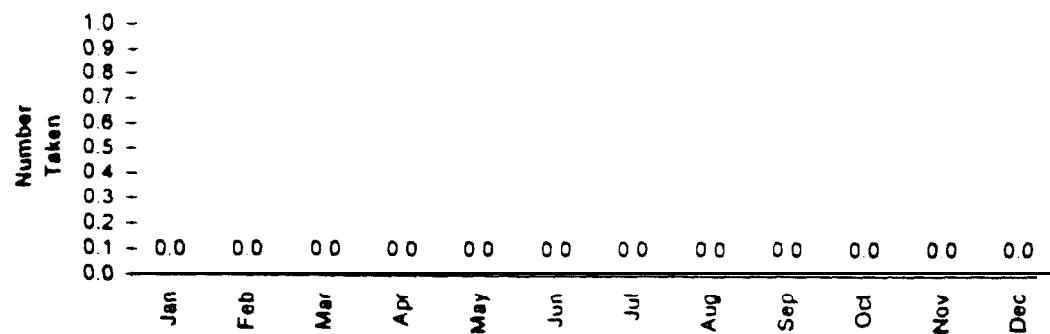
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1994.

FIGURE 5. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HAINES, 1993

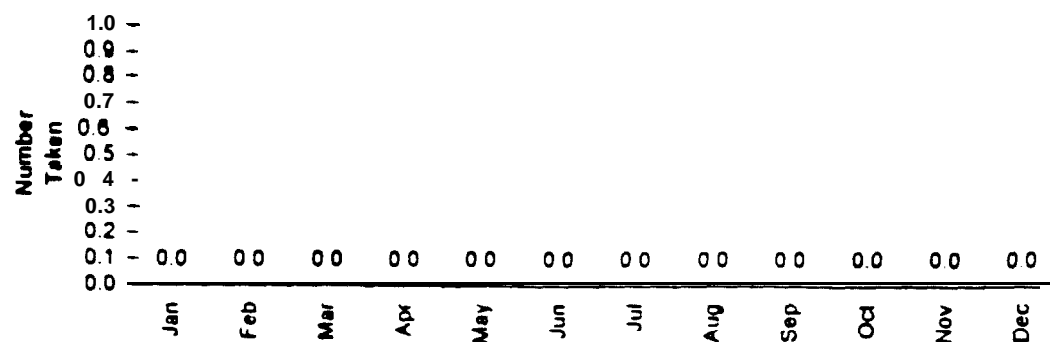
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1994.

TABLE 8. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HAINES, 1993**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households	23
Surveyed Households	20
Sampling Fraction a7	0%
Sample Household Members	70
Estimated Household Members	80.5

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expanded)
Used 80.0%	Total Number Harvested 23.0
Hunted 65.0%	Total Number Struck and Lost 2.3
Harvested 40.0%	Total Number Taken 25.3
Received so 0%	Number Harvested Per Capita N/A
Gave Away 40.0%	

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	8	2	0	3	0	0	0	0	0	2	2	3	0	8
Struck and Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	8	2	0	5	0	0	0	0	0	2	2	3	0	22
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.2	2.3	00	35	00	00	00	00	00	23	2.3	3.5	0.0	23.0
Struck and Lost	0.0	00	00	23	00	0.0	0.0	00	00	00	00	0.0	0.0	2.3
Total Take	9.2	23	00	5.8	00	0.0	0.0	00	00	2.3	2.3	3.5	0.0	25.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.2	23	00	35	00	0.0	0.0	00	00	2.3	23	3.5		23.0
Struck and Lost	0.0	0.0	00	23	00	0.0	0.0	00	00	00	00	0.0		2.3
Total Take	9.2	23	0.0	5.8	00	0.0	0.0	00	00	2.3	23	3.5		25.3
Total Take (%)	36.4%	0.18	008	22.7%	008	0.0.8	0.0%	008	0.0%	9.1%	9.1%	13.6%		100%
Cumulative Take	92	11.1	11	3	17	3	173	17.3	17	3	17.3	19.6	219	25.3
Cum Take (%)	36.4%	45.5%	45.5%	68.2%	68.2%	68.2%	68.2%	68.2%	68.2%	77.3%	86.4%	100.0%		

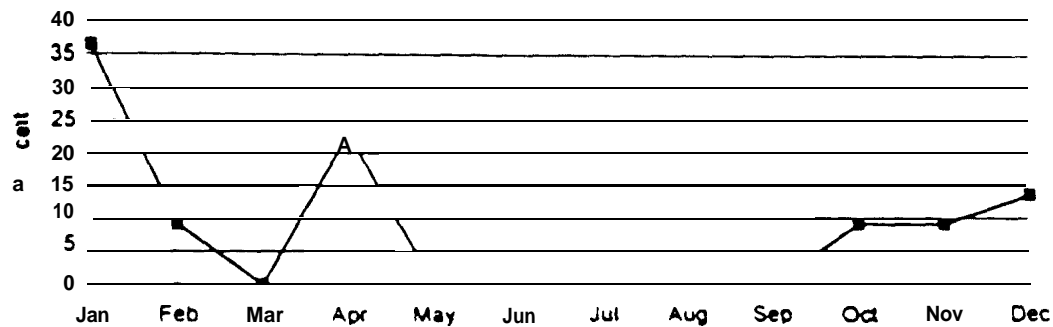
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	12	60.0%	13.8	60.0%
Adult Female	4	20.0%	4.6	20.0%
Adult Unknown Sex	3	15.0%	3.5	15.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	5.0%	1.2	5.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	20	100.0%	23.0	100.0%

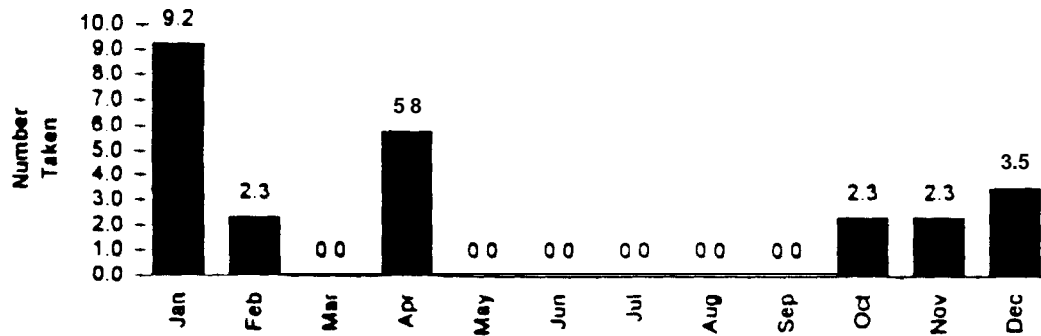
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1994

FIGURE 6. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HAINES, 1993

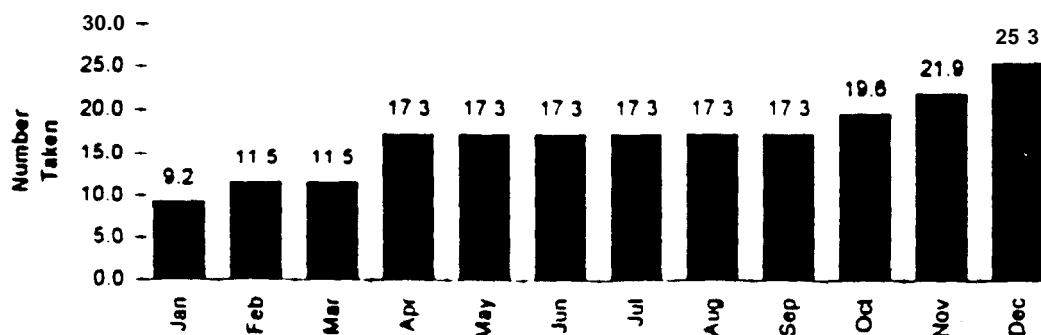
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1994.

TABLE 7. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HOONAH, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	57	98	155
Surveyed Households	53	33	86
Sampling Fraction	93.0%	33.7%	55.5%
Sample Household Members	224	115	339
Estimated Household Members	240.9	341.5	582.4

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 0.0%	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.0%	Number Harvested Per Capita 0.00
Gave Away 00%	

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)														
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

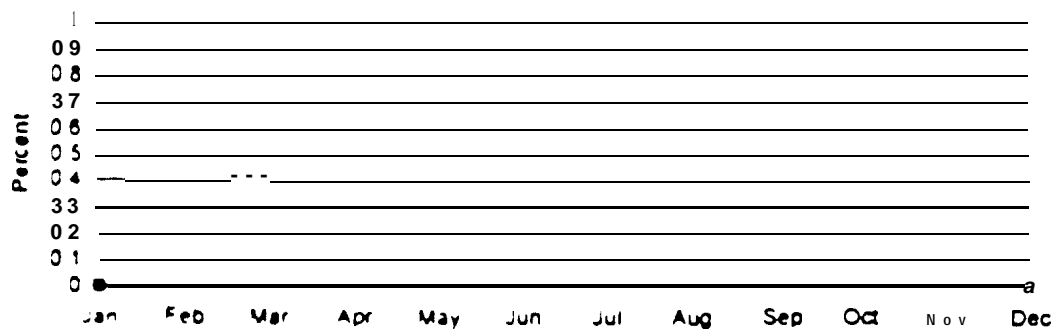
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	00	—
Female Unknown Age	0	—	00	—
Unknown Age	0	—	00	—
Total	0	—	00	—

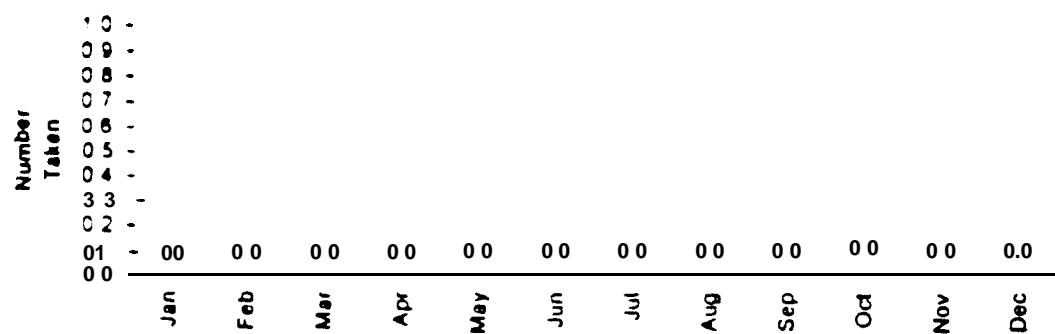
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1994.

FIGURE 7. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HOONAH, 1993

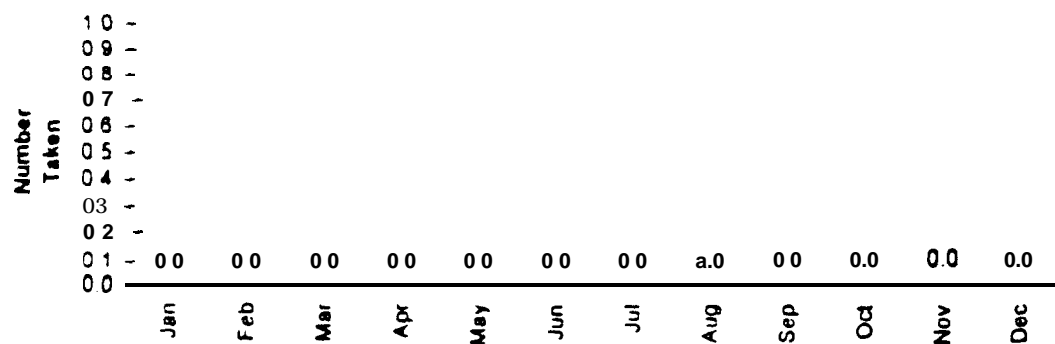
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game Division of Subsistence Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Hoonah Traditional Council 1994

TABLE 8. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HOONAH, 1993

SAMPLING DESIGN: **TWO STRATA**

	Active	other	Total
Total Native Households	57	98	155
Surveyed Households	53	33	86
Sampling Fraction	93.0%	33.7%	55.5%
Sample Household Members	224	115	339
Estimated Household Members	240.9	341.5	582.4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
 Used 83.8%
 Hunted 38.0%
 Harvested 35.4%
 Received 64.0%
 Gave Away 41.7%

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 324.4
 Total Number Struck and Lost 35.8
 Total Number Taken 380.2
 Number Harvested Per Capita 0.56

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	18	13	38	27	7	4	5	18	33	34	28	52	0	277
Struck and Lost	0	2	3	2	0	0	1	1	2	.	1	2	10	28
Total Take	18	15	41	29	7	.	6	19	35	38	29	54	10	305
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	21.3	17.8	50.3	30.9	7.5	4.3	5.4	19.4	30.3	40.4	30.1	57.8	0.0	324.4
Struck and Lost	0.0	2.2	5.1	5.0	0.0	0.0	1.1	1.1	2.2	4.3	1.1	2.2	10.8	35.8
Total Take	21.3	19.9	55.5	35.9	7.5	4.3	6.5	20.4	41.1	44.7	31.2	60.0	10.8	360.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	21.3	17.8	50.3	30.9	7.5	4.3	5.4	19.4	30.3	40.4	30.1	57.8		324.4
Struck and Lost	0.0	3.1	7.3	5.5	0.0	0.0	1.5	1.5	3.1	6.1	1.5	3.1		35.8
Total Take	21.3	20.8	57.7	36.4	7.5	4.3	6.9	20.9	42.4	46.5	31.6	60.9		360.2
Total Take (%)	5.9%	5.8%	18.0%	10.9%	2.1%	1.2%	1.9%	5.8%	11.8%	12.9%	8.8%	16.9%		100%
Cumulative Take	21.3	42.1	99.8	139.2	146.7	151.0	157.9	178.8	221.2	267.7	299.3	360.2		
Cum. Take (%)	5.9%	11.7%	27.7%	38.6%	40.7%	41.9%	43.8%	49.6%	61.4%	74.3%	83.1%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

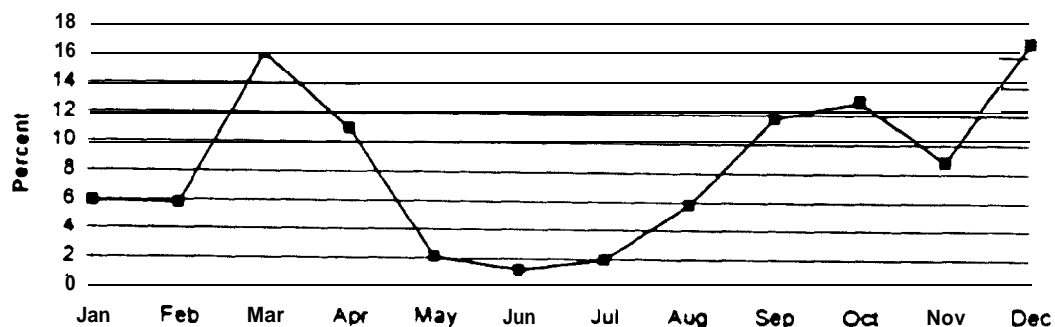
		Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent	
Adult	Male	112	40.4%	137	54.24%
Adult	Female	73	26.4%	88.0	27.1%
Adult	Unknown Sex	68	24.5%	73.1	22.5%
Jwenik	Male	12	4.3%	12.9	4.0%
Juvenile	Female	5	1.8%	5.4	1.7%
Juvenile	Unknown Sex	7	2.5%	7.5	2.3%
Pup	Male	0	0.0%	0.0	0.0%
Pup	Female	0	0.0%	0.0	0.0%
PUP	Unknown Sex	0	0.0%	0.0	0.0%
Male	Unknown Age	0	0.0%	0.0	0.0%
Female	Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age		0	0.0%	0.0	0.0%
Total		277	100.0%	324.4	100.0%

SOURCE:

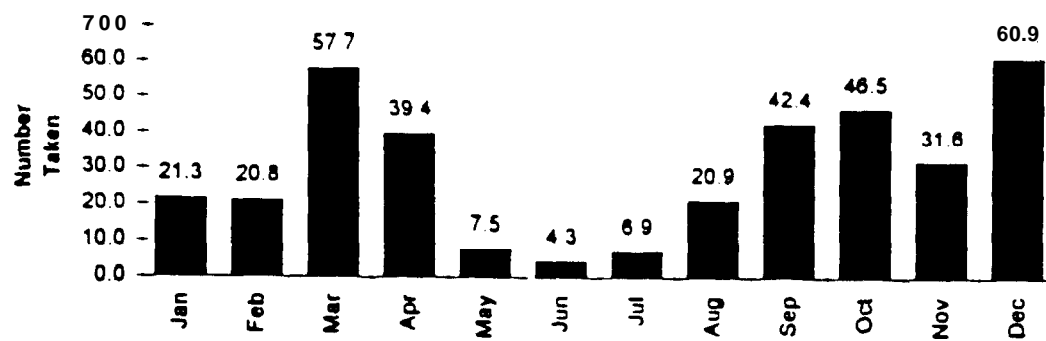
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1994

FIGURE 8. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HOONAH, 1993

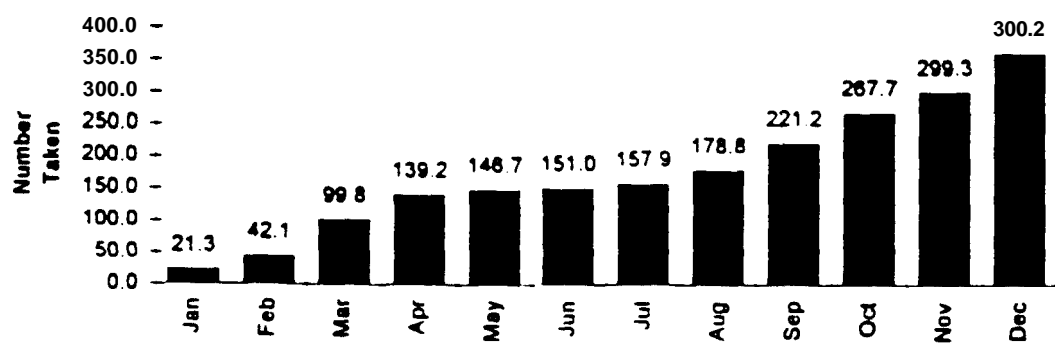
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1994.

TABLE 9. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HYDABURG. 1991

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 14
 Surveyed Households 14
 Sampling Fraction 100.0%
 Sample Household Members 47
 Estimated Household Members 47.0

SEA LION HARVEST AND USE INFORMATION

Percent of Sample Households

Used 0.0%
 Hunted 0.0%
 Harvested 0.0%
 Received 0.0%
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded).

Total Number Harvested 0.0
 Total Number Struck and Lost 0.0
 Total Number Taken 0.0
 Number Harvested Per Capita N/A

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	3	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

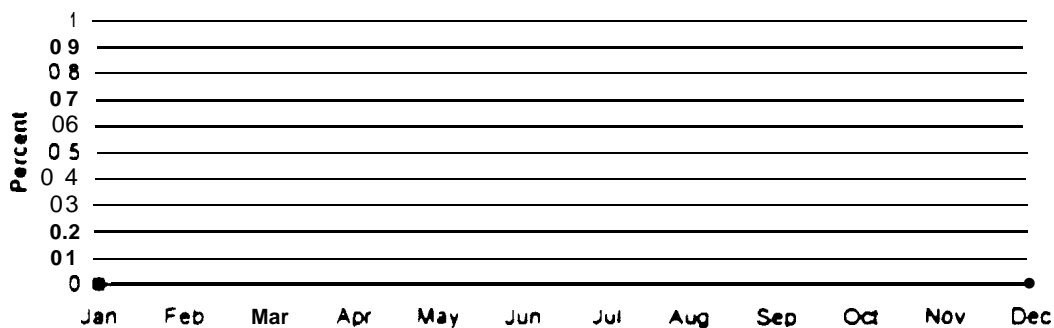
SEA LION HARVEST BY AGE AND SEX

			Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult	Male		0	—	0.0	—
	Female		0	—	0.0	—
Adult	Unknown	Sex	0	—	0.0	—
Juvenile	Male		0	—	0.0	—
Juvenile	Female		0	—	0.0	—
Juvenile	Unknown	Sex	0	—	0.0	—
Pup Male			0	—	0.0	—
Pup	Female		0	—	0.0	—
Pup	Unknown	sex	0	—	0.0	—
Male	Unknown	Age	0	—	0.0	—
Female	Unknown	Age	0	—	0.0	—
Unknown Sex and Age			0	—	0.0	—
Total			0	—	0.0	—

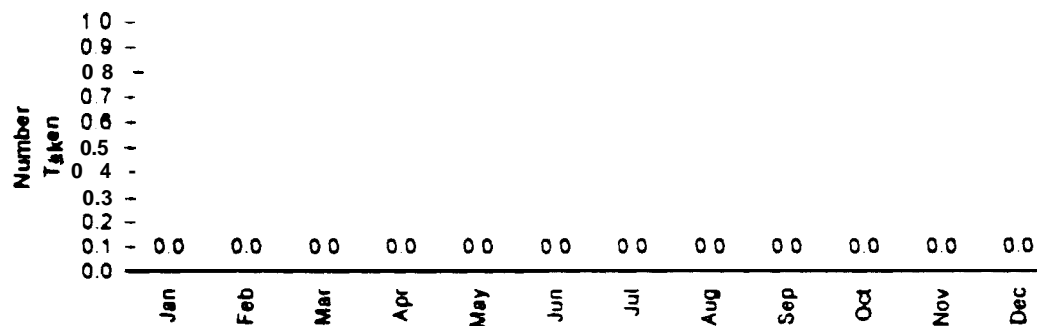
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hyaburg and Meade Corporation, 1994.

FIGURE 9. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HYDABURG. 1993

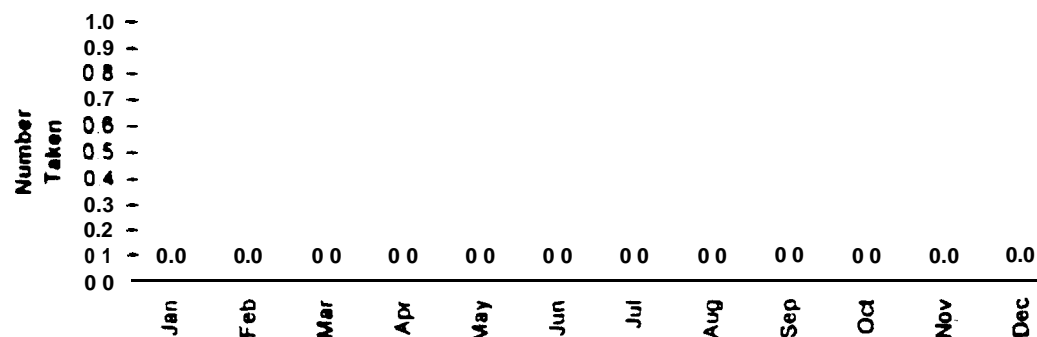
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Hecla Corporation, 1994.

TABLE 10. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HYDABURG, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	14
Surveyed Households	14
Sampling Fraction	100.0%
Sample Household Members	47
Estimated Household Members	47.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:

used	35.7%
Hunted	35.7%
Harvested	35.7%
Received	0.0%
Gave Away	26.6%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	14.0
Total Number Struck and Lost	0.0
Total Number Taken	14.0
Number Harvested Per Capita	N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	5	3	1	0	0	0	0	1	0	0	0	14
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	5	3	1	0	0	0	4	1	0	0	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	5.0	3.0	1.0	0.0	0.0	0.0	4.0	1.0	0.0	0.0	0.0	14.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	5.0	3.0	1.0	0.0	0.0	0.0	4.0	1.0	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	5.0	3.0	1.0	0.0	0.0	0.0	4.0	1.0	0.0	0.0		14.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	5.0	3.0	1.0	0.0	0.0	0.0	4.0	1.0	0.0	0.0		14.0
Total Take (%)	0.0%	0.0%	35.7%	21.4%	7.1%	0.0%	0.0%	0.0%	28.6%	7.1%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	5.0	8.0	9.0	9.0	9.0	9.0	13.0	14.0	14.0	14.0		
Cum. Take (%)	0.0%	0.0%	35.7%	57.1%	64.3%	64.3%	64.3%	64.3%	92.9%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

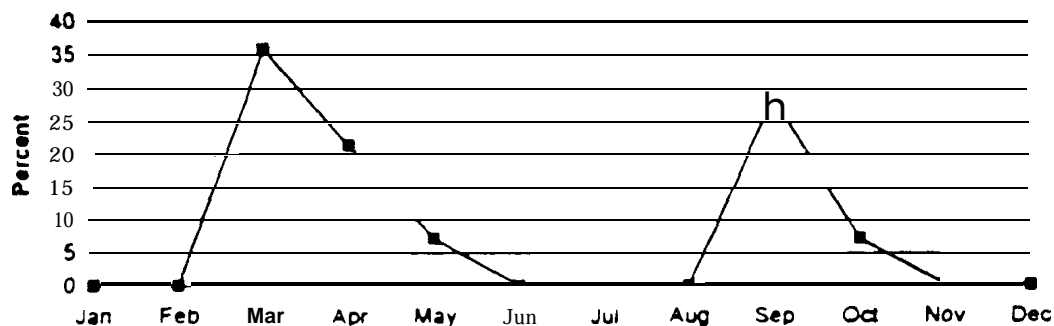
		Reported		Estimated	
		By Sample	Percent	By Community	Percent
		(Unexpanded)		(Expanded)	
Adult	Male	8	57.1%	8.0	57.1%
Adult	Female	4	26.6%	4.0	26.6%
Mull	Unknown	Sex	1	1.0	7.1%
Juvenile	Male	1	7.1%	1.0	7.1%
Juvenile	Female	0	0.0%	0.0	0.0%
Juvenile	Unknown	Sex	0	0.0%	0.0%
Pup Male		0	0.0%	0.0	0.0%
Pup	Female	0	0.0%	0.0	0.0%
Pup	Unknown	Sex	0	0.0%	0.0%
Male	Unknown	Age	0	0.0%	0.0%
Female	Unknown	Age	0	0.0%	0.0%
Unknown	Sex and Age		0	0.0%	0.0%
Total			100.0%	14.0	100.0%

SOURCE:

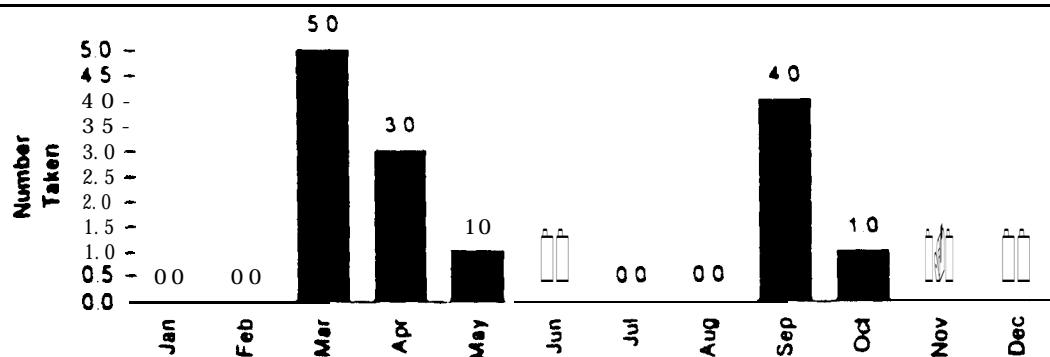
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1994.

FIGURE 10. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HYDABURG, 1993

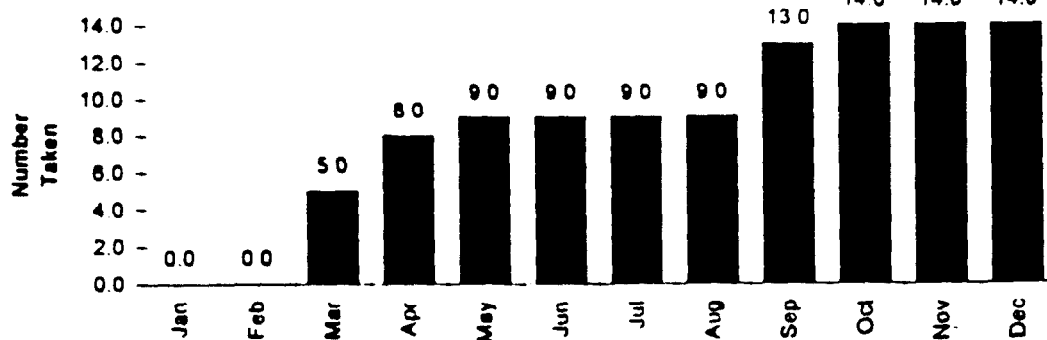
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Heide Corporation, 1994.

TABLE 11. SEA LION (*E-opus jubatus*) HARVEST AND TAKE ESTIMATES: JUNEAU, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households	101
Surveyed Households	89
Sampling Fraction	88.1%
Sample Household Members	299
Estimated Household Members	339.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

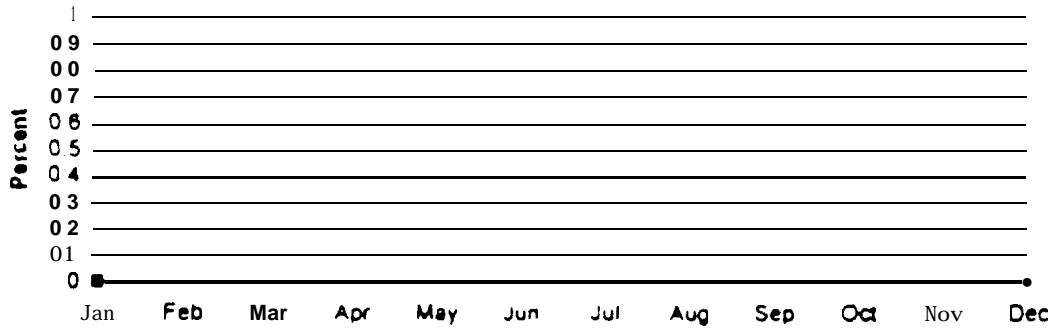
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

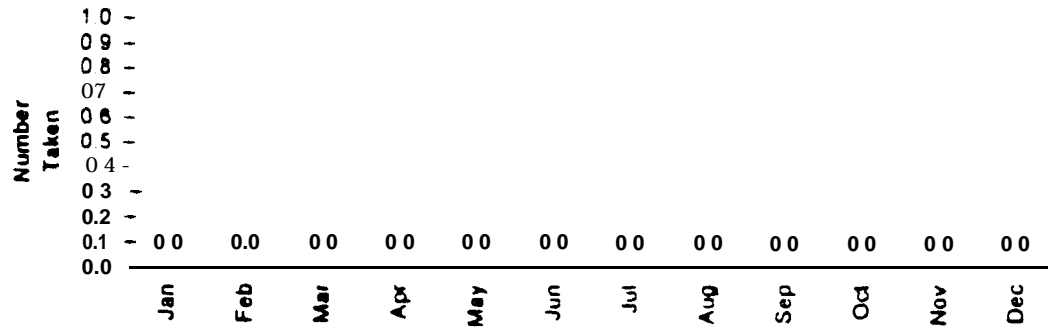
Alaska Department of Fish and Game: Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleut Tribe Council, and ANB/ANS, 1994.

FIGURE 11. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: JUNEAU, 1993

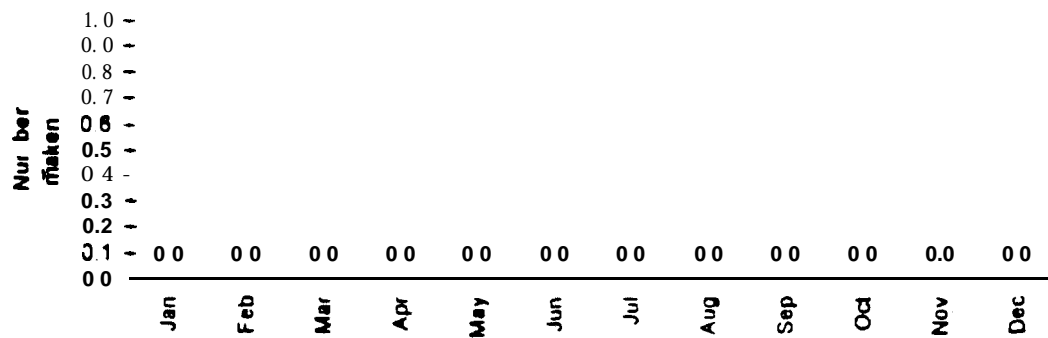
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleut Tribe Council, and ANB/ANS, 1994

TABLE 12 HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: JUNEAU, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	101
Surveyed Households	89
Sampling Fraction	88.1 %
Sample Household Members	299
Estimated Household Members	339.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent of Sample Households	Estimated Community Harvest and Take (Expanded)
Used 40.4 %	Total Number Harvested 59.0
Hunted 40.4 %	Total Number Struck and Lost 21.6
Harvested 19.1 %	Total Number Taken 80.6
Received 24.7 %	Number Harvested Per Capita N/A
Gave Away 15.7 %	

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	8	0	1	0	2	0	1	1	11	19	5	0	52
Struck and Lost	0	0	2	0	0	8	0	0	1	5	2	0	1	19
Total Take	4	8	2	1	0	10	0	1	2	16	21	5	1	71
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.5	9.1	0.0	1.1	0.0	2.3	0.0	1.1	1.1	12.5	21.6	5.7	0.0	59.0
Struck and Lost	0.0	0.0	2.3	0.0	0.0	9.1	0.0	0.0	1.1	5.7	2.3	0.0	1.1	21.6
Total Take	4.5	9.1	2.3	1.1	0.0	11.3	0.0	1.1	2.3	18.2	23.8	5.7	1.1	80.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.5	9.1	0.0	1.1	0.0	2.3	0.0	1.1	1.1	12.5	21.6	5.7		59.0
Struck and Lost	0.0	0.0	2.4	0.0	0.0	9.6	0.0	0.0	1.2	6.0	2.4	0.0		21.6
Total Take	4.5	9.1	2.4	1.1	0.0	11.9	0.0	1.1	2.3	18.5	24.0	5.7		80.6
Total Take (%)	5.68	11.3%	3.0%	1.4%	0.0%	14.2%	0.0%	1.4%	2.9%	22.9%	29.7%	7.0%		100%
Cumulative Take	4.5	13.6	16.0	17.1	17.1	29.0	29.0	30.1	32.5	50.0	74.9	80.6		
Cum Take (%)	5.68	16.9%	19.9%	21.3%	21.3%	36.0%	36.0%	37.4%	40.3%	63.2%	83.0%	100.0%		

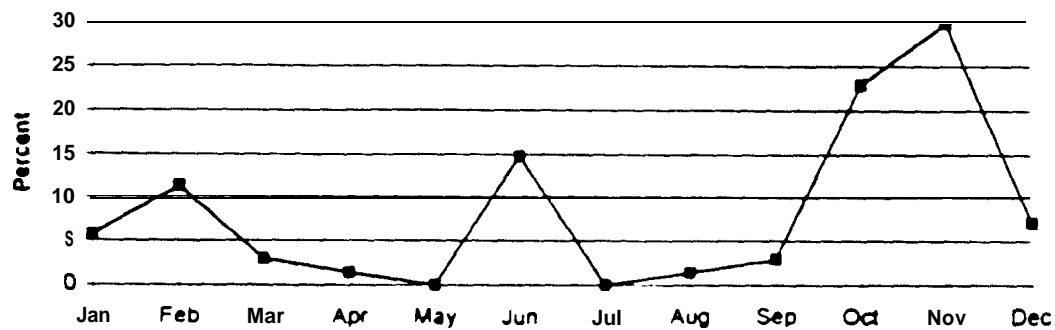
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	35	67.3%	39.7	67.3%
Adult Female	4	7.7%	4.5	7.7%
Adult Unknown Sex	1	1.9%	1.1	1.9%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	3.8%	2.3	3.8%
Pup Male	1	1.9%	1.1	1.9%
Pup Female	0	0.0%	0.0	0.0%
PUP Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	9.1	17.3%	10.2	17.3%
Total	52	100.0%	59.0	100.0%

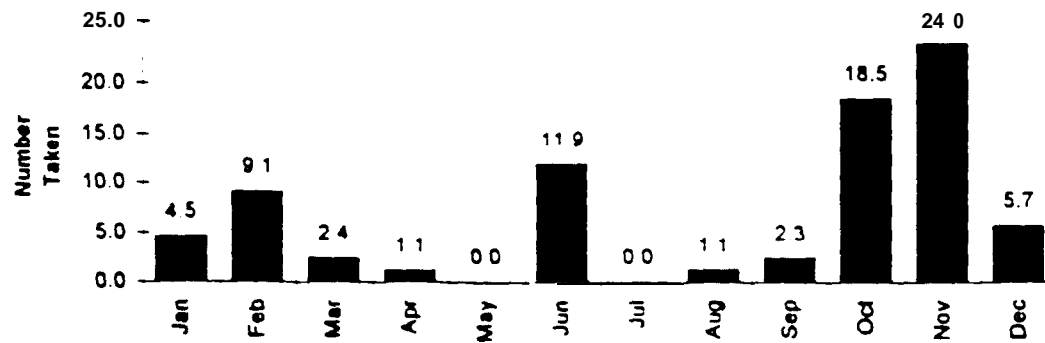
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleut Tribe Council, and ANS/ANS, 1994.

FIGURE 12. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: JUNEAU, 1993

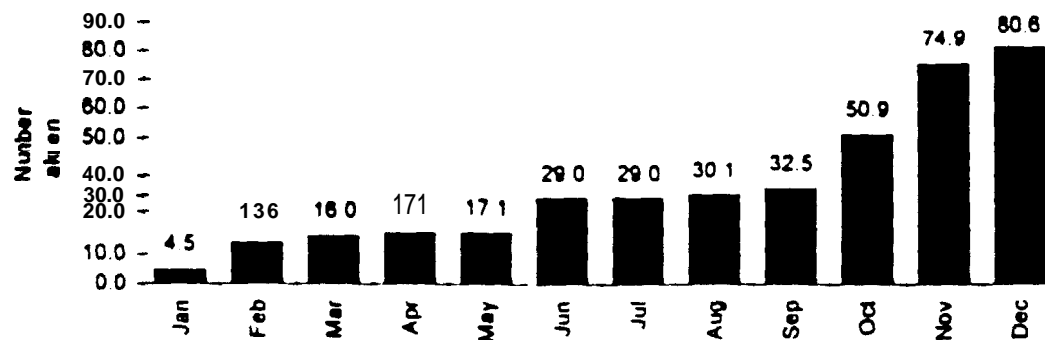
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleut Tribe Council, and ANB/ANS, 1994.

TABLE 13. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KAKE, 1993

SAMPLING DESIGN. TWO STRATA

	Active	Other	Total
Total Native Households	78	80	168
Surveyed Households	72	30	102
Sampling Fraction	92.3%	33.3%	60.7%
Sample Household Members	287	76	363
Estimated Household Members	310	9228	5389

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 00%	Total Number Harvested 00
Hunted 00%	Total Number Struck and Lost 00
Harvested 00%	Total Number Taken 00
Received 00%	Number Harvested Per Capita 0.00
Gave Away 00%	

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ow Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

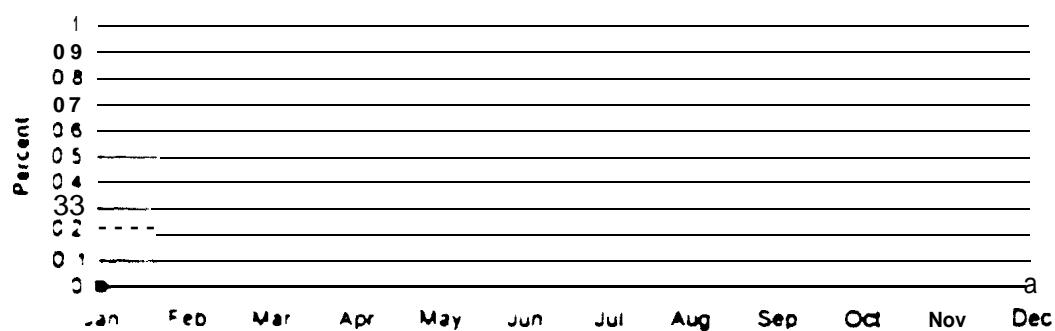
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Null unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

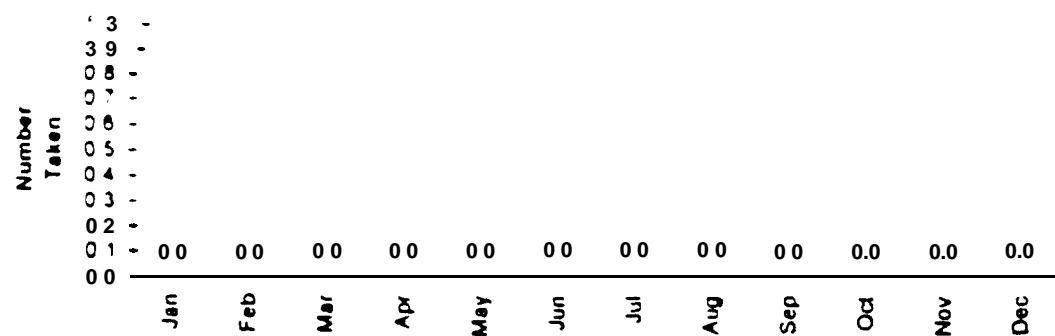
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994

FIGURE 13. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KAKE, 1993

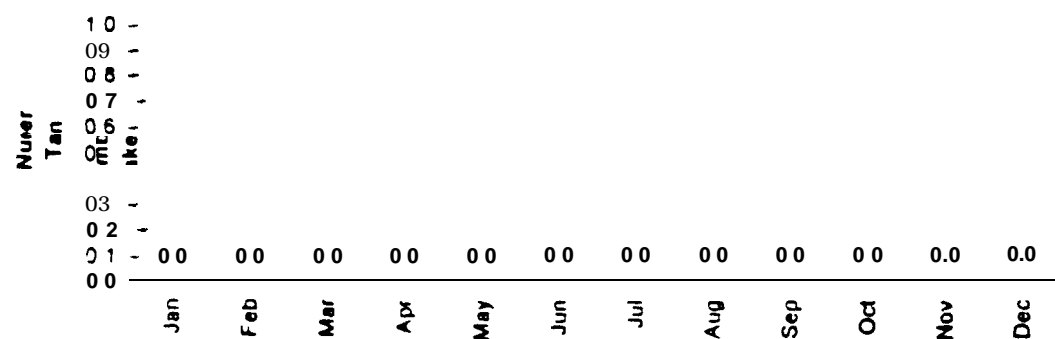
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994.

TABLE 14. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KAKE, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	78	90	168
Surveyed Households	7	2	1020
Sampling Fraction	92 3%	33 3%	60 7%
Sample Household Members	287	78	363
Estimated Household Members	3 1 0 9	228 0 538 9	

HARBOR SEAL HARVEST AND USE INFORMATION*Percent Of Native Households*

Used 80 5 %
 Hunted 18 1 %
 Harvested 1 4 2 %
 Received 4 5 0 %
 Gave Away 12 3 %

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 1 0 0 8
 Total Number Struck and Lost 152
 Total Number Taken 115 9
 Number Harvested Per Capita 0 19

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	.	8	3	3	3	3	12	18	17	20	0	1	a3
Struck and Lost	0	0	.	0	1	1	2	3	1	.	1	0	0	14
Total Take	1	.	9	3	4	4	5	15	19	21	21	0	1	107
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	4.3	8.7	3.3	3.3	3.3	3.3	13.0	19.5	18.4	21.7	0.0	1.1	100.8
Struck and Lost	0.0	0.0	1.1	0.0	1.1	1.1	2.2	3.3	1.1	4.3	1.1	0.0	0.0	15.2
Total Take	1.1	4.3	9.8	3.3	4.3	4.3	5.4	16.3	20.6	22.8	22.6	0.0	1.1	115.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	4.4	8.8	3.3	3.3	3.3	3.3	13.1	19.7	18.6	21.9	0.0		100.8
Struck and Lost	0.0	0.0	1.1	0.0	1.1	1.1	2.2	3.3	1.1	4.3	1.1	0.0		11.2
Total Take	1.1	4.4	9.8	3.3	4.4	4.4	5.5	16.4	20.8	20.0	23.0	0.0		115.9
Total Take (%)	0.9%	3.8%	8.5%	2.8%	3.8%	3.3%	4.7%	14.1%	17.1%	19.8%	19.8%	0.0%		100%
Cumulative Take	1.1	5.5	15.3	18.6	23.0	27.3	32.8	49.2	70.0	92.9	115.9	115.9		
Cum. Take (%)	0.9%	4.7%	13.2%	16.0%	19.8%	23.8%	28.3%	42.4%	60.4%	80.2%	100.0%	100.0%		

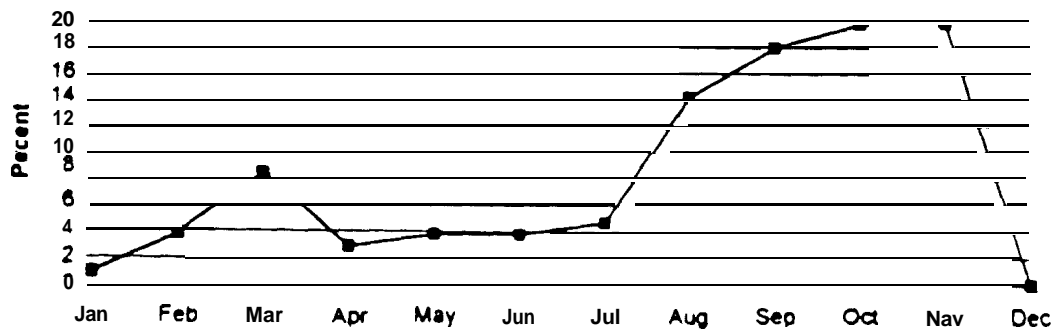
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	62	66.7%	67.2	66.7%
Adult Female	8	8.6%	8.7	8.6%
Adult Unknown Sex	4	4.3%	4.3	4.3%
Juvenile Male	6	6.5%	6.5	6.5%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	3	3.2%	3.3	3.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	2	2.2%	2.2	2.2%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	8	8.6%	8.7	8.6%
Total	93	100.0%	100.8	100.0%

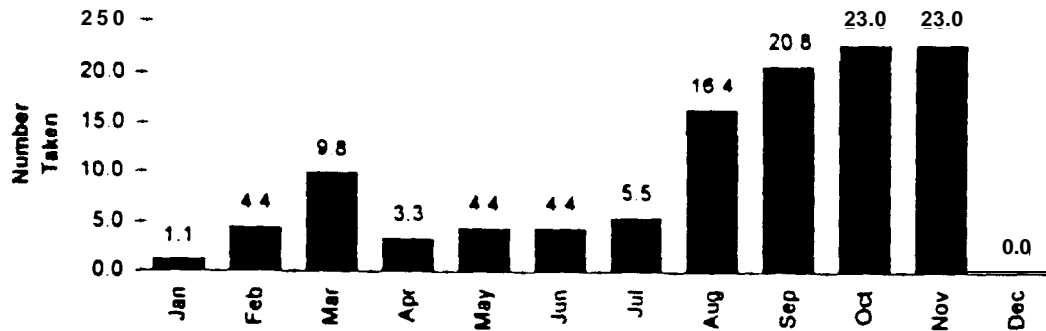
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994

FIGURE 14. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KAKE, 1993

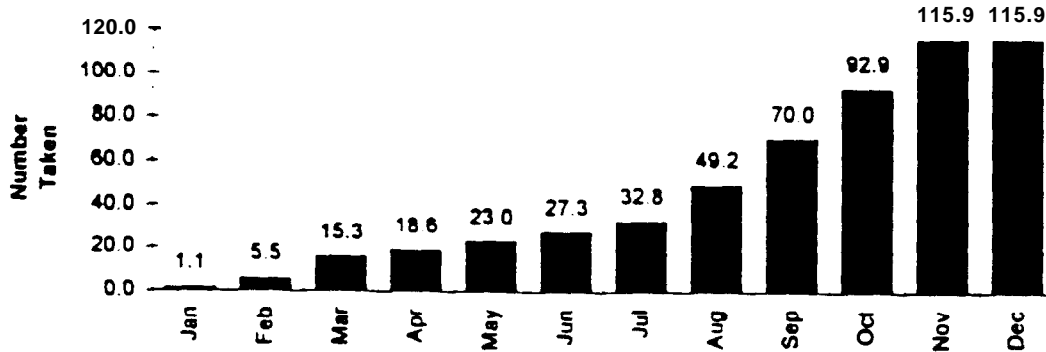
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1994

TABLE 18. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KETCHIKAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	19
Surveyed Households	13
Sampling Fraction	68.4%
Sample Household Members	32
Estimated Household Members	46.8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	E	-	Community Harvest and Take (Expanded):
Used 48.2%			Total Number Harvested 42.4
Hunted 23.1%			Total Number Struck and Lost 2.9
Harvested 23.1%			Total Number Taken 45.3
Received 23.1%			Number Harvested Per Capita N/A
Gave Away 7.7%			

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	10	10	5	0	0	0	0	2	0	2	0	0	29	
Struck and Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
Total Take	0	10	10	7	0	0	0	0	2	0	2	0	0	31	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	14.6	14.6	7.3	0.0	0.0	0.0	0.0	2.9	0.0	2.9	0.0	0.0	42.4	
Struck and Lost	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	
Total Take	0.0	14.6	14.6	10.2	0.0	0.0	0.0	0.0	2.9	0.0	2.9	0.0	0.0	45.3	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	14.0	14.6	7.3	0.0	0.0	0.0	0.0	2.9	0.0	2.9	0.0		42.4	
Struck and Lost	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.9	
Total Take	0.0	14.6	14.6	10.2	0.0	0.0	0.0	0.0	2.9	0.0	2.9	0.0		45.3	
Total Take (%)	0.0%	32.3%	32.3%	22.6%	a. 08	008	0.0%	0.0%	6.5%	0.0%	6.58	0.08		100%	
Cumulative Take	0.0	14.6	29.2	39.5	39.5	39.5	39.5	30.5	42.4	42.4	46.2	45.3			
Cum. Take (%)	0.0%	32.3%	br. 58	87.1%	67.18	87.1%	87.1%	87.1%	93.5%	W. 58	100.0%	10008			

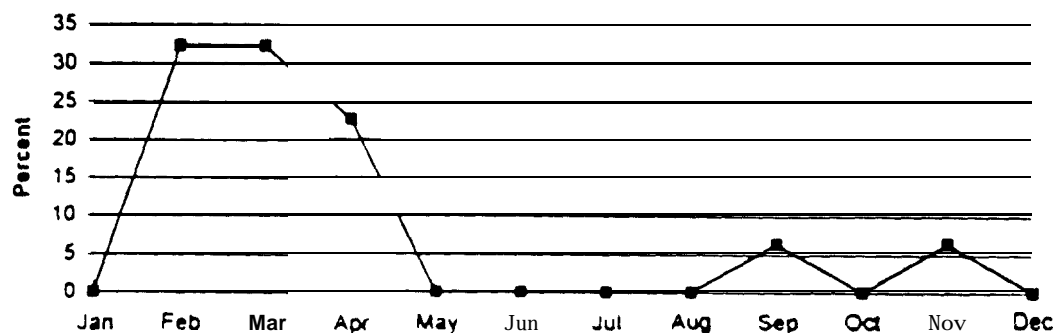
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	13	44.8%	19.0	42.8%
Adult Female	13	44.8%	19.0	42.8%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	6.9%	2.9	6.9%
Juvenile Female	1	3.4%	1.5	3.4%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	29	100.0%	42.4	100.0%

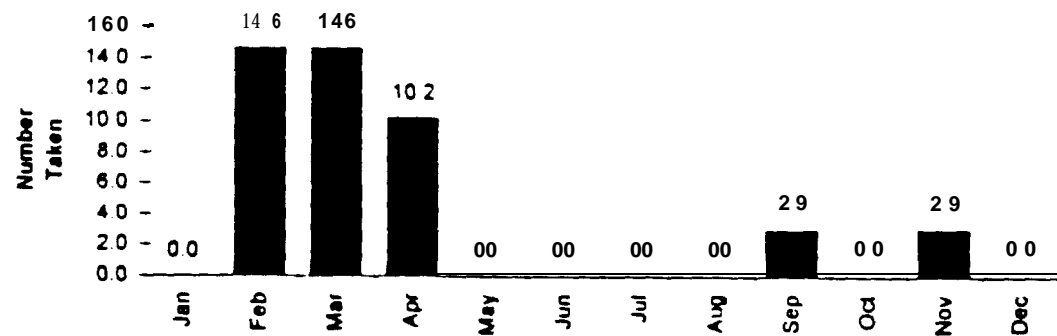
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1994.

FIGURE 16. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KETCHIKAN, 1993

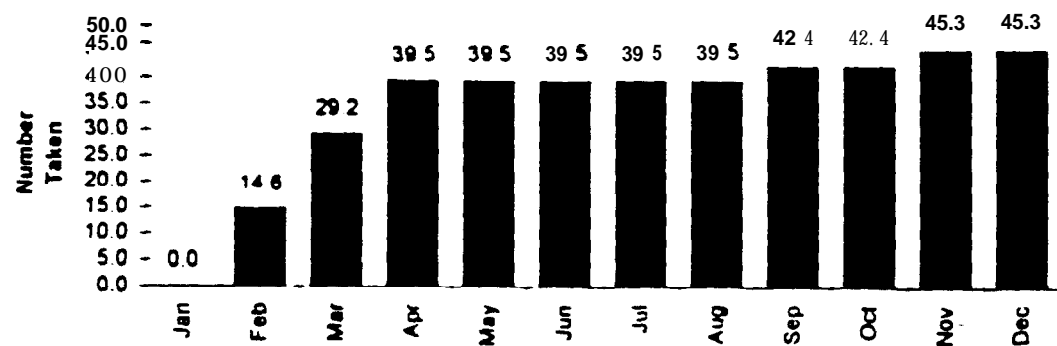
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1994

TABLE 17. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KUWOCK, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households	28
Surveyed Households	19
Sampling Fraction	67.9%
Sample Household Members	67
Estimated Household Members	98.7

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	00	0.0	00	0.0
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0	00	0.0
Total Take	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	0.0	0.0		00
Struck and Lost	00	00	00	00	00	00	00	00	00	0.0	00	0.0		0.0
Total Take	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	008	008	0.0%	0.08	0.0%	0.0%	0.0%	0.0%		

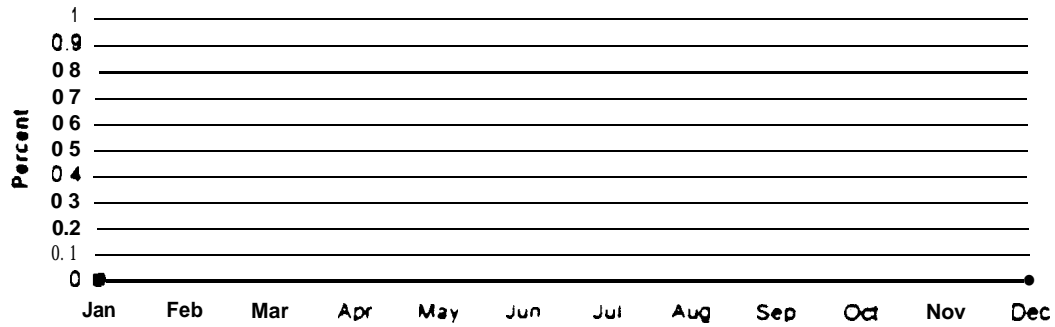
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		c - 1	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	00	—
Total	0	—	0.0	—

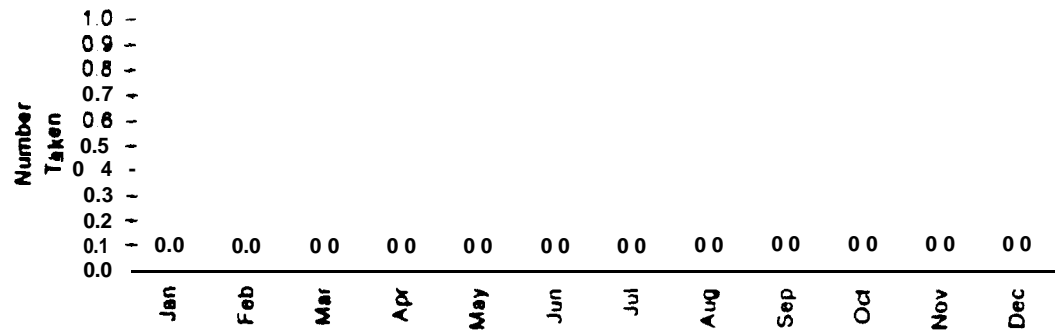
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1994.

FIGURE 17. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KLAWOCK, 1993

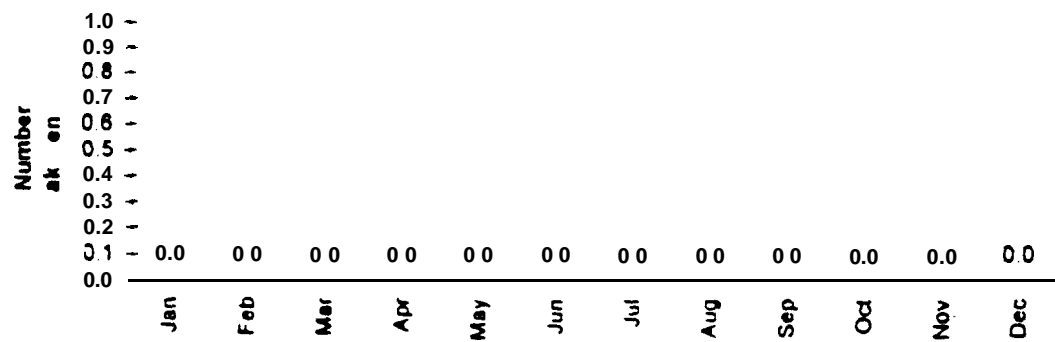
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1994

TABLE 18. HARBOR SEAL (*Phw vitulina*) HARVEST AND TAKE ESTIMATES: Klawock, 1993

SAMPLING DESIGN: CHAIN REFERRAL

total Sample Households	26
Surveyed Households	19
Sampling Fraction	67.9%
Sample Household Members	67
Estimated Household Members	98.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expanded)
Used 31.6%	Total Number Harvested 39.8
Hunted 26.3%	Total Number Struck and Lost 0.0
Harvested 26.3%	total Number Taken 39.6
Received 10.5%	Number Harvested Per Capita N/A
Gave Away 21.1%	

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	2	1	0	0	0	0	0	0	0	4	17	3	27	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	2	1	0	0	0	0	0	0	0	4	17	3	27	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	25.1	4.4	39.8	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	25.1	4.4	39.8	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	26.2	4.4	39.8	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	26.2	4.4	39.8	
Total Take (%)	0.08	6.38	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.08	0.08	6.5%	26.2%	4.4%	100%	
Cumulative Take	0.0	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	11.5	37.7	39.8		
Cum. Take (%)	0.08	6.38	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	29.2%	100.0%			

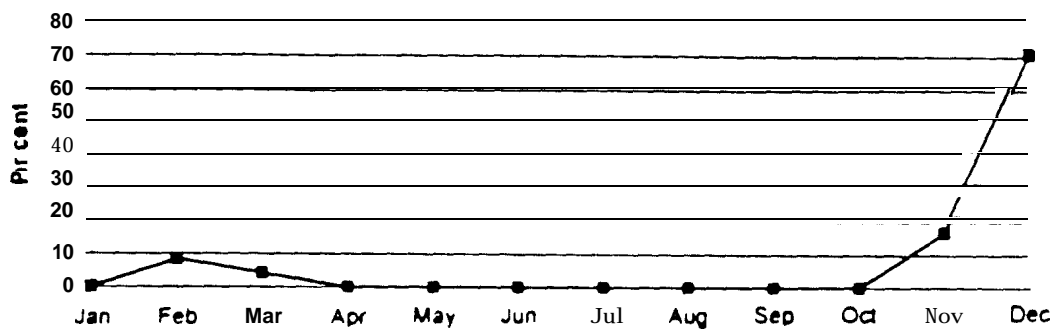
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	24	88.9%	35.4	88.9%
Mutt Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	3	11.1%	4.4	11.1%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	27	100.0%	39.8	100.0%

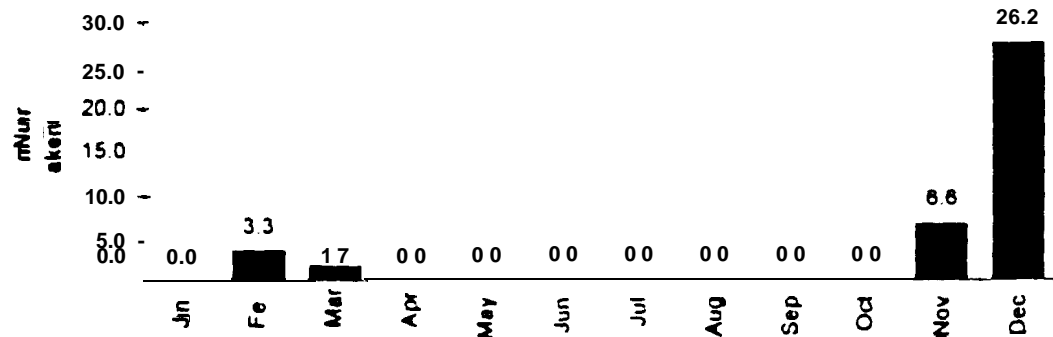
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1994.

FIGURE 18. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KLAWOCK, 1993

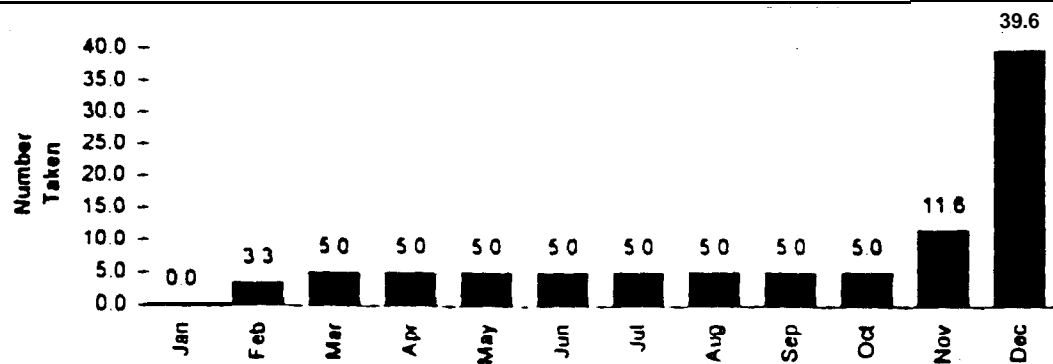
A. Percentage Seasonally Adjusted take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1994

TABLE 19. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KLUKWAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	11
Surveyed Households	9
Sampling Fraction	81.8%
Sample Household Members	48
Estimated Household Members	58.2

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest	Estimated Community Take (Expanded)
Used 00%		Total Number Harvested 0.0
Hunted 00%		Total Number Struck and Lost 0.0
Harvested 00%		Total Number Taken 0.0
Received 0.0%		Number Harvested Per Capita WA
Gsvf Awry 0.0%		

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0.0	0 0	0 0
Struck and Lost	00	0.0	0 0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0	0 0
Total Take	00	00	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0.0	0.0	0 0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0		0 0
Struck and Lost	0.0	00	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0.0		0 0
Total Take	00	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	00	0 0		0 0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0 0	0 0	0 0	0 0	0 0	00	00	00	0.0	0 0		
Cum Take (%)	0 . 0 8	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	008	0 0 8		

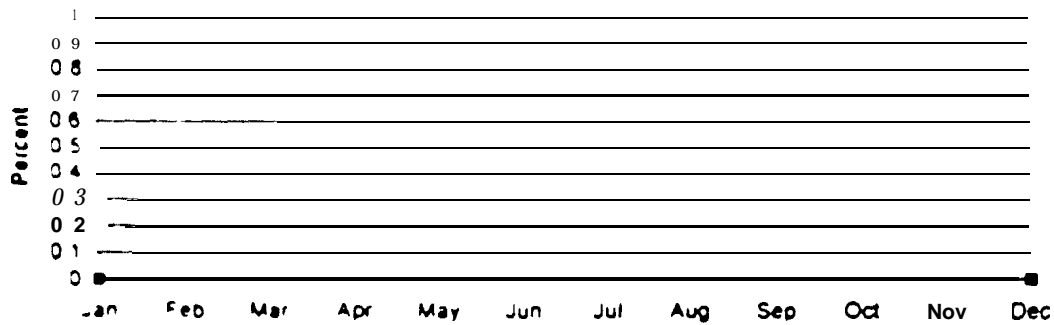
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Mull Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

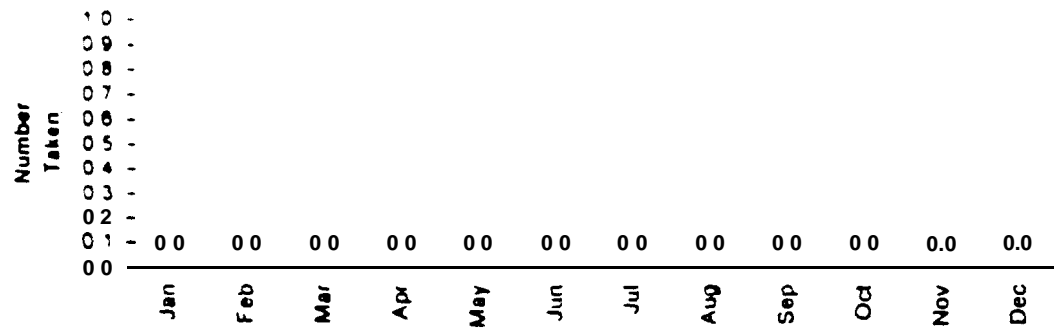
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1994.

FIGURE 19. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KLUKWAN, 1993

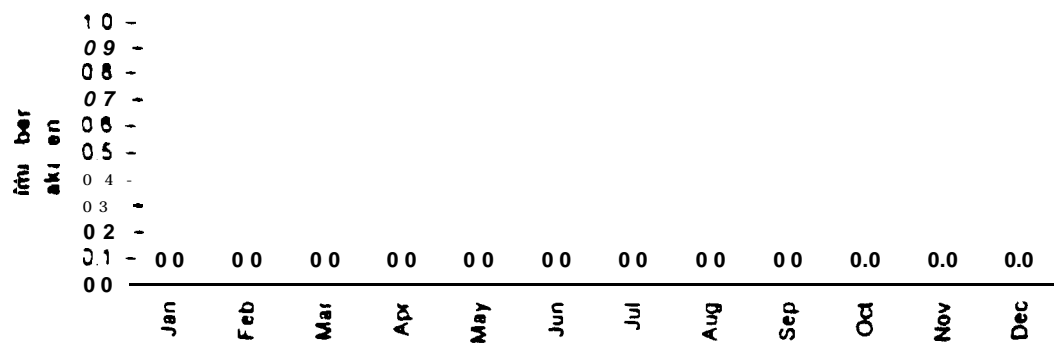
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chukot Indian Village, 1994.

TABLE 20. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KLUKWAN, 1993**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households	11
Surveyed Households	9
Sampling Fraction	81.8%
Sample Household Members	46
Estimated Household Members	56.2

HARBOR SEAL HARVEST AND USE INFORMATION*Percent Of Sample Households:*

Used	11.1%
Hunted	22.2%
Harvested	11.1%
Received	11.1%
Gave Away	11.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	1.2
Total Number Struck and Lost	0.0
Total Number Taken	1.2
Number Harvested Per Capita	N/A

HARBOR SEAL HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	1	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Total Take (%)	0.08	0.08	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	
Cum. Take (%)	0.08	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY AGE AND SEX

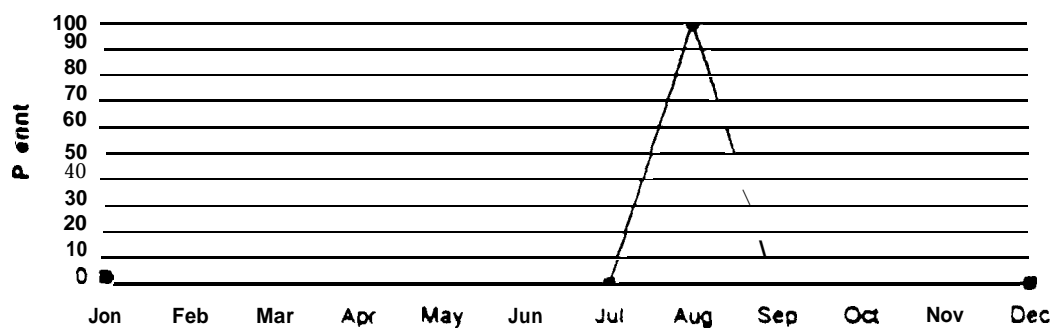
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.2	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.2	100.0%

SOURCE:

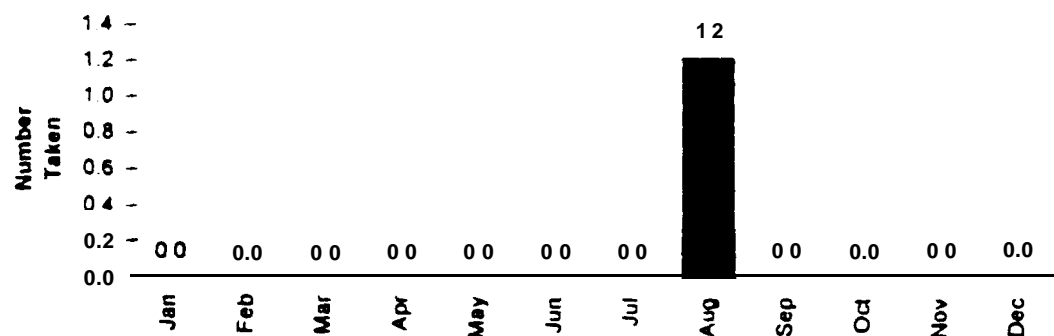
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1994

FIGURE 20. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KLUKWAN, 1993

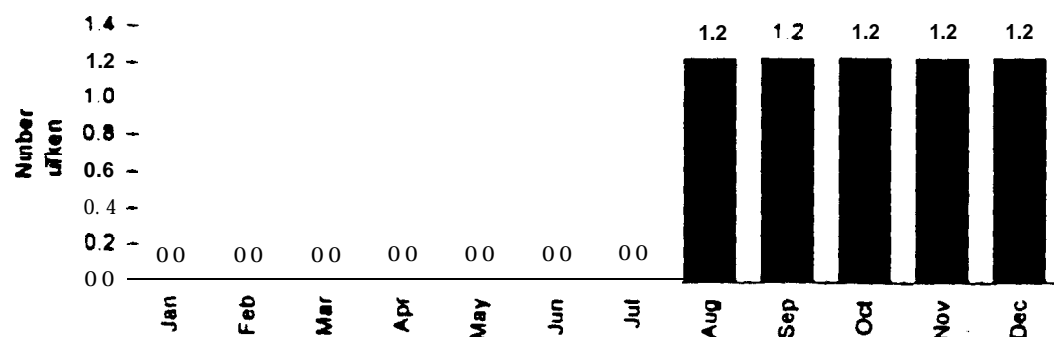
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1994.

TABLE 21. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PELICAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	18
Surveyed Households	15
Sampling Fraction	93.8%
Sample Household Members	42
Estimated Household Members	U 8

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households		Estimated Community Harvest and Take (Expanded)	
Used	0.0%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	N/A
Gave Away	0.0%		

SEA LION HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

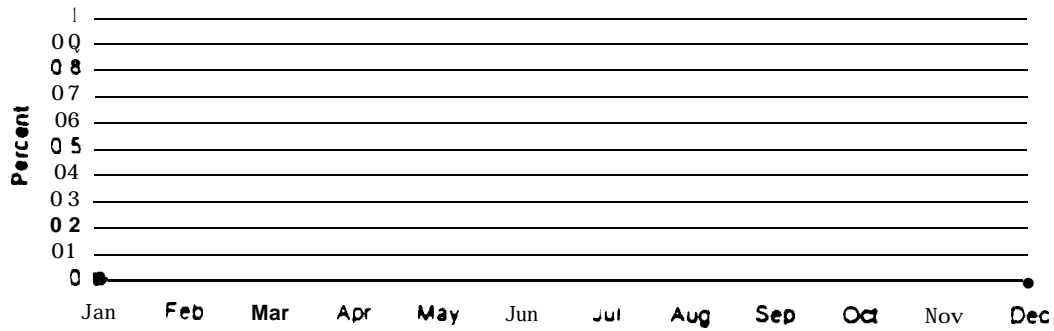
SEA LION HARVEST BY AGE AND S&X

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	—
Adult Female	0		0.0	—
Adult Unknown Sex	0		0.0	—
Juvenile Male	0		0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0		0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

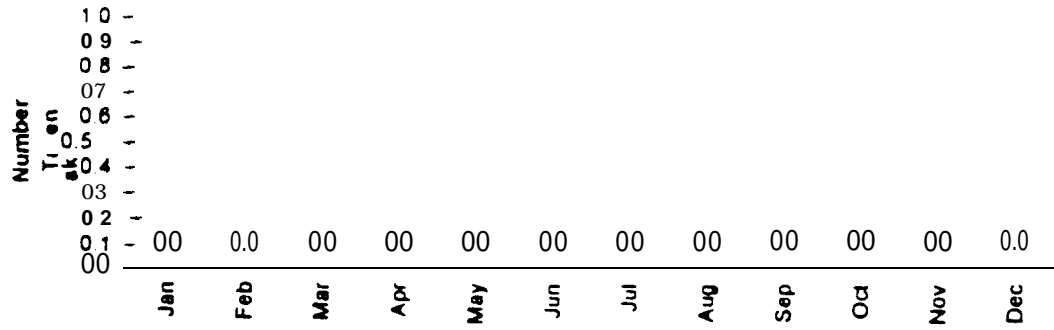
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

FIGURE 21. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PELICAN, 1993

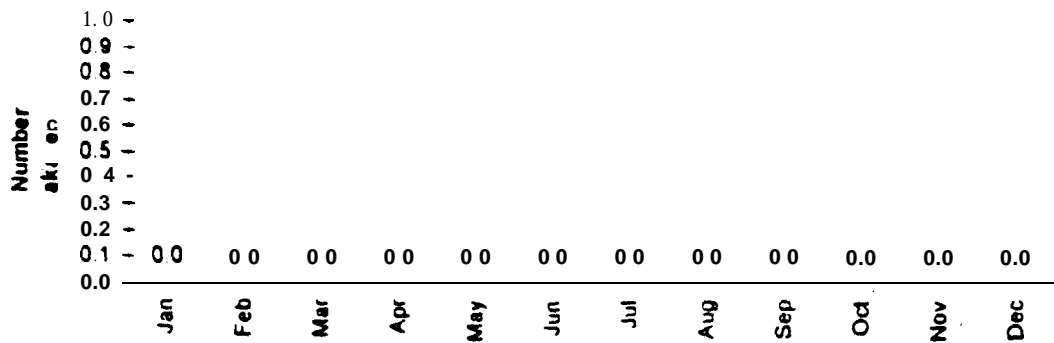
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

TABLE 22 HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PELICAN, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	16
Surveyed Households	15
Sampling Fraction	93.8%
Sample Household Members	42
Estimated Household Members	U 8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households	Estimated Community Harvest and Take (Expanded):
used 53.3%	Total Number Harvested 5.3
Hunted 26.7%	Total Number Struck and Lost 1.1
Harvested 26.7%	Total Number Taken 6.4
Received 26.7%	Number Harvested Per Capita N/A
Gave Away 13.3%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Unknown	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	1	1	0	0	2	1	0	0	0	0	0	0	5
Struck and Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	1	2	0	0	2	1	0	0	0	0	0	0	6
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.1	1.1	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	5.3
Struck and Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	1.1	2.1	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.1	1.1	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	5.3
Struck and Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	1.1	2.1	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.4
Total Take (%)	0.0%	0.0%	16.7%	33.3%	0.0%	0.0%	33.3%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	1.1	3.2	3.2	3.2	5.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
Cum. Take (%)	0.0%	0.0%	16.7%	no8	50.0%	50.0%	83.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY AGE AND SEX

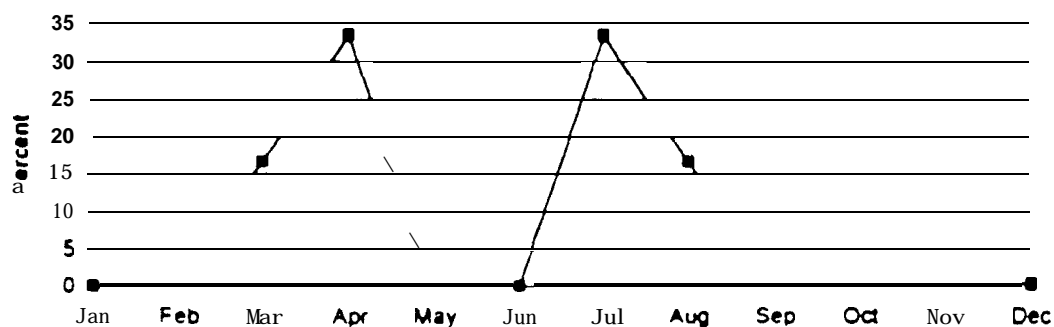
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	5	100.0%	5.3	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex • na Age	0	0.0%	0.0	0.0%
Total	5	100.0%	5.3	109.0%

SOURCE:

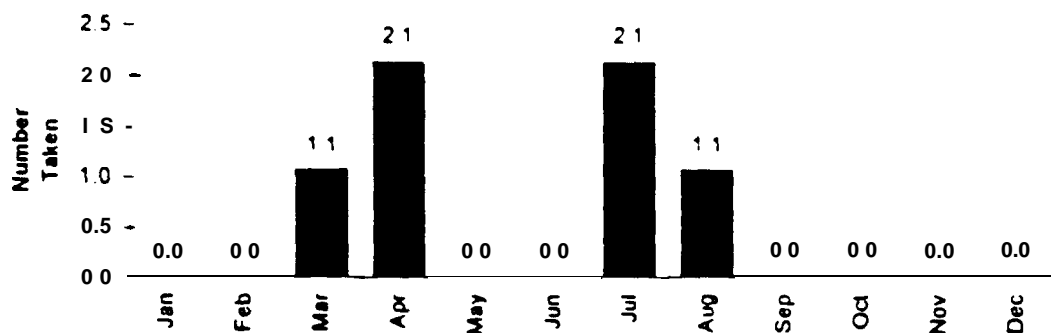
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

FIGURE 22. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PELICAN, 1993

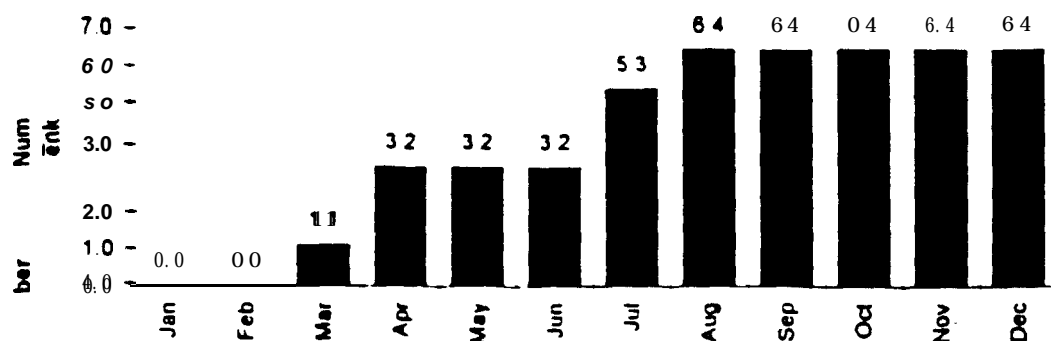
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1994.

TABLE 23. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PETERSBURG, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households	18
Surveyed Households	8
Sampling Fraction	44.4%
Sample Household Members	22
Estimated Household Members	49.5

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households		Estimated Community Harvest and Take (Expanded):	
Used	0.0%	Total Number Harvested	0.0
Harmed	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	N/A
Gave Away	0.0%		

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	0.0	00	00	00
Struck and Lost	00	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0
Total Take	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	00	00	00	00	00	00	00	00	00	00	0.0	0.0		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

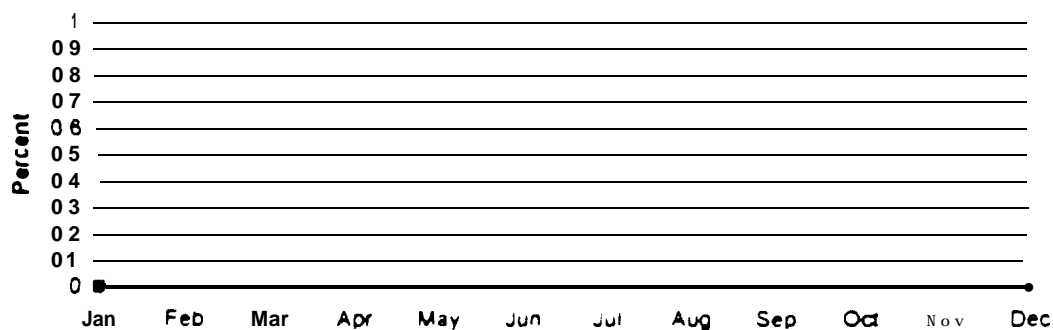
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	00	—
Pup Female	0	—	00	—
			0.0	
Male/Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	00	—
Unknown Sex and Age	0	—	00	—
Total	0	—	0.0	—

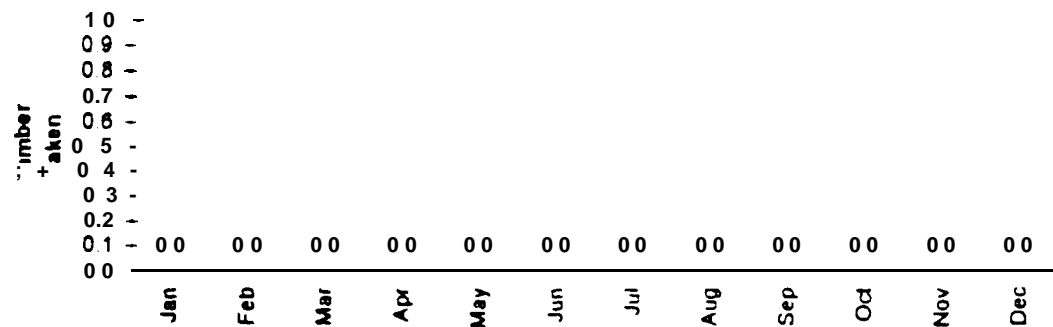
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1994.

FIGURE 23. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PETERSBURG, 1993

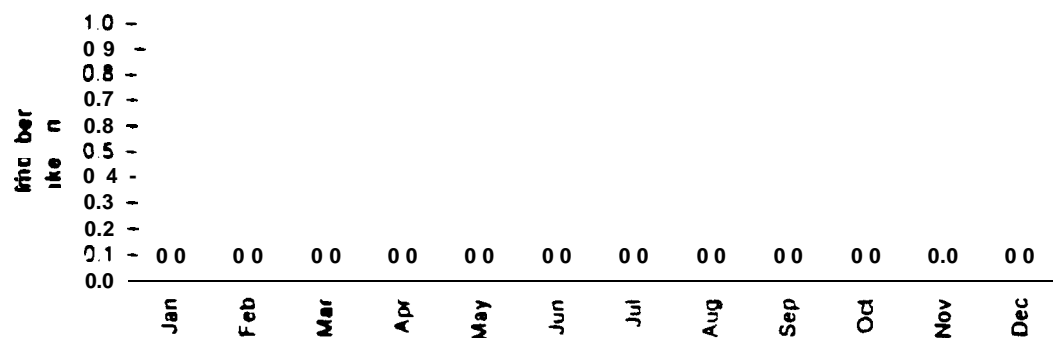
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1994.

TABLE 24. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PETERSBURG, 1991

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	18
Surveyed Households	8
Sampling Fraction U	4%
Sample Household Members	22
Estimated Household Members	49.5

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households used 500%	Estimated Community Harvest and Take (Expanded)
Hunted 25.0%	Total Number Harvested 4.5
Harvested 12.5%	Total Number Struck and Lost 4.5
Received 50.0%	Total Number Taken 9.0
Gave Away 12.5%	Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
Struck and Lost	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
Total Take	0	0	0	0	0	0		0	0	0	0	0	0		
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY AGE AND SEX

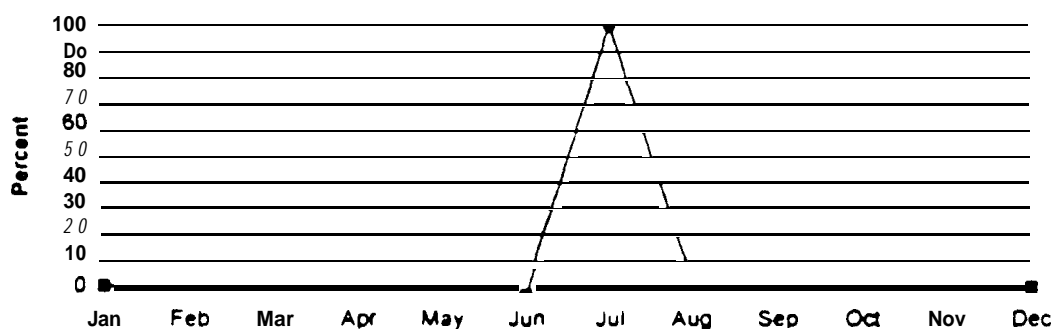
	Reported By Sample (Unexpanded)	Percent	Estimated k	m	-
Adult Male	0	00%	0	0	0.0%
Adult Female	0	00%	0	0	0.0%
Adult Unknown Sex	2	100.0%	4.5	100.0%	
Juvenile Male	0	00%	0	0	0.0%
Juvenile Female	0	00%	0	0	0.0%
Juvenile Unknown Sex	0	00%	0.0	0	0.0%
Pup Male	0	00%	0	0	0.0%
Pup Female	0	00%	0	0	0.0%
Pup Unknown Sex	0	00%	0	0	0.0%
Male Unknown Age	0	00%	0.0	0	0.0%
Female Unknown Age	0	00%	0.0	0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0	0.0%
Total	2	100.0%	4.5	100.0%	

SOURCE:

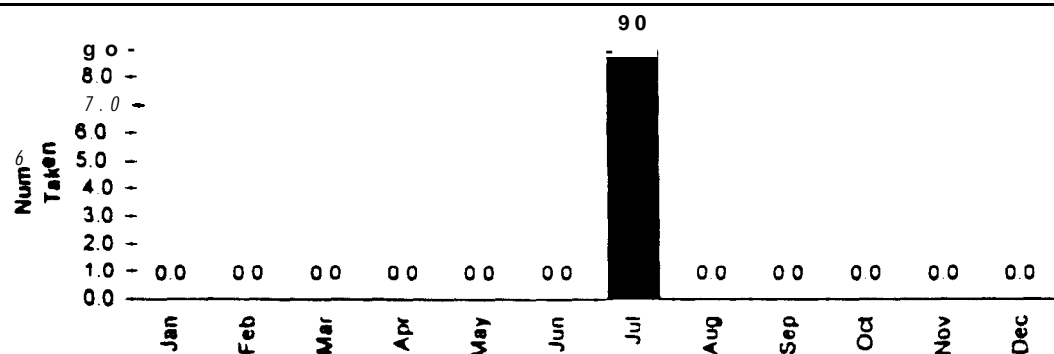
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1994.

FIGURE 24. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PETERSBURG, 1993

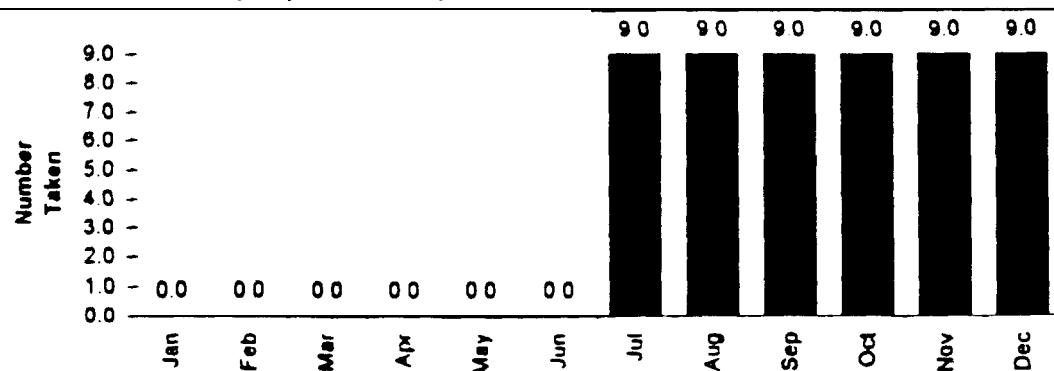
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1994.

TABLE 25. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAXMAN, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	10	51	61
Surveyed Households	9	29	38
Sampling Fraction	90.0%	56.9%	62.3%
Sample Household Members	51	93	144
Estimated Household Members	56.7	183.8	220.2

SEA LION HARVEST AND USE INFORMATION

Percent of Native Households	E	Community Harvest and Take (Expanded)
Used 0.0%		Total Number Harvested 0.0
Hunted 0.0%		Total Number Struck and Lost 0.0
Harvested 0.0%		Total Number Taken 0.0
Received 0.0%		Number Harvested Per Capita 0.00
Gave Away 0.0%		

SEA LION HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	3	3	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED - S T AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

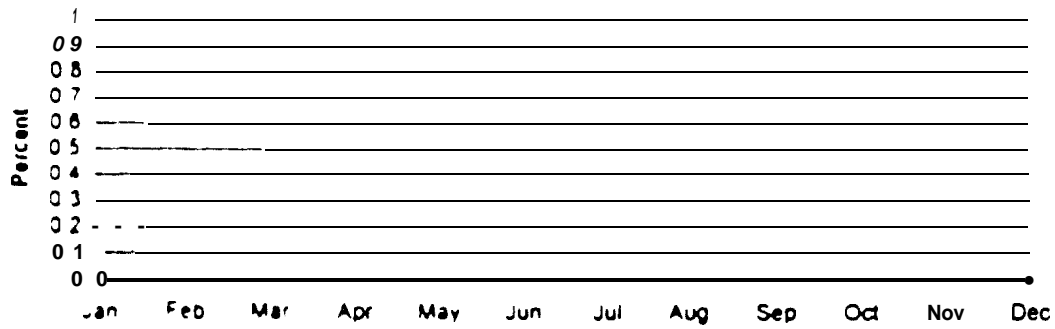
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvunb Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Femrb Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

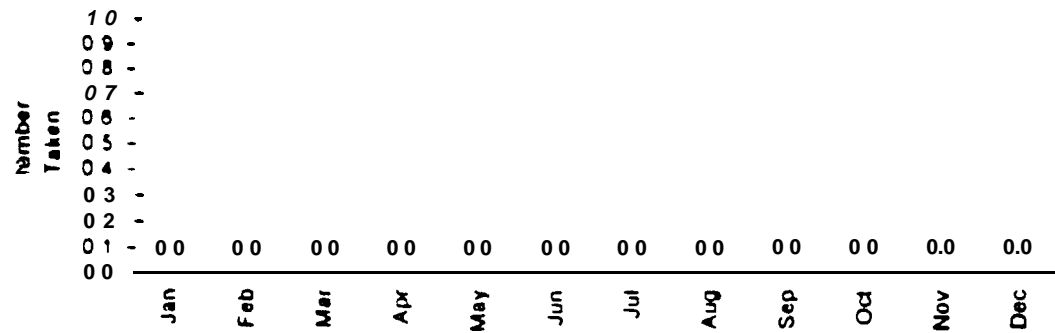
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IPA Council, 1994

FIGURE 25. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SAXMAN, 1993

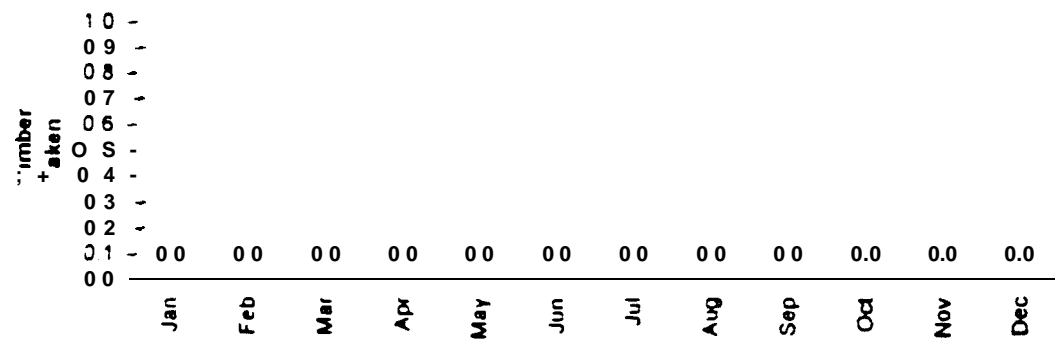
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1994.

TABLE 26. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAXMAN, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	10	51	61
Surveyed Households	9	29	38
Sampling Fraction	90.0%	56.9%	62.3%
Sample Household Members	51	93	144
Estimated Household Members	56.7	1636	220.2

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
 Used 24.6%
 Hunted 6.5%
 Harvested 3.6%
 Received 24.6%
 Gave Away 11.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 5.6
 Total Number Struck and Lost 0.0
 Total Number Taken 5.6
 Number Harvested Per Capita 0.03

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	2	1	0	0	0	0	0	0	0	0	0	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	2	1	0	0	0	0	0	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.6
Total Take (%)	0.0%	40.0%	40.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	2.2	4.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.6		
Cum. Take (%)	0.0%	40.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

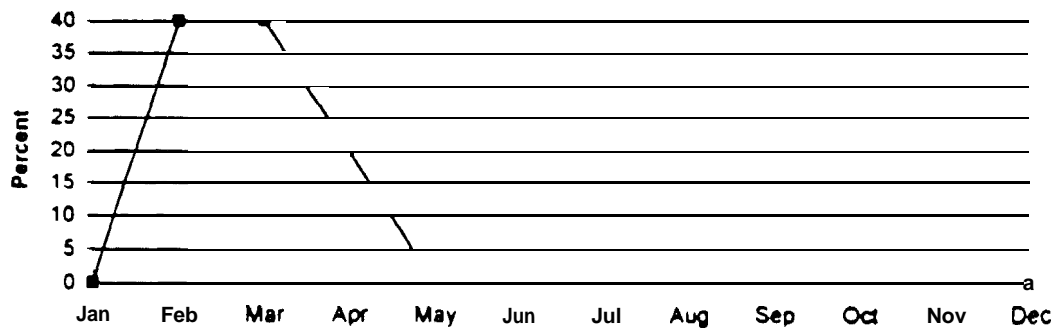
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	20.0%	1.1	20.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	40.0%	2.2	40.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	40.0%	2.2	40.0%
Total	5	100.0%	5.6	100.0%

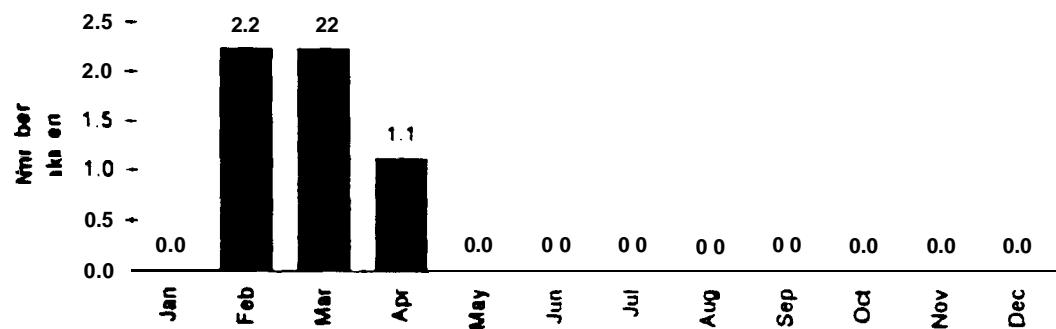
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1994

FIGURE 26. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAXMAN, 1993

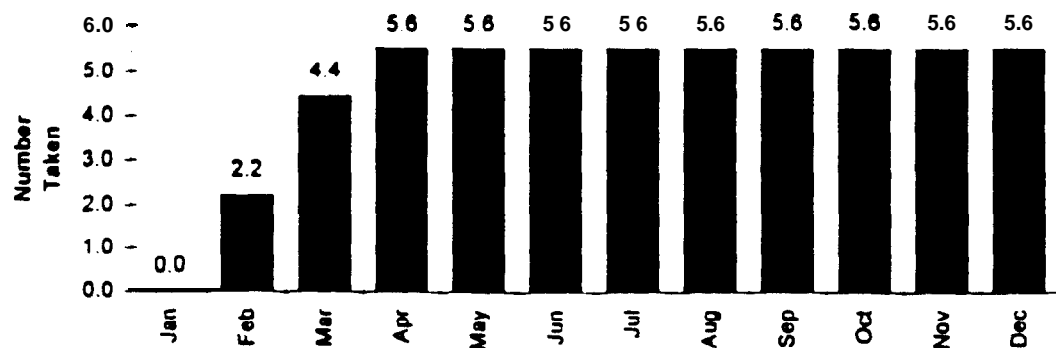
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1994.

TABLE 27. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SITKA, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	71	418	489
Surveyed Households	84	30	94
Sampling Fraction	90.1%	7.2%	19.2%
Sample Household Members	220	112	332
Estimated Household Members	244.1	1560.5	1804.6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	0.5%
Hunted	0.2%
Harvested	0.0%
Received	0.5%
Gave Away	0.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	1.1
Total Number Taken	1.1
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	3	3	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	3	0	0	0	1	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	0	1	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY EXPANDED,														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Struck and Lost	00	0.0	00	00	00	00	00	00	00	0.0	1.1	00	0.0	1.1
Total Take	00	00	00	00	00	00	00	00	00	00	1.1	0.0	00	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	00	0.0	00	00	00	0.0	00	0.0	00	00		0.0
Struck and Lost	0.0	00	00	00	00	00	00	0.0	00	0.0	1.1	00		1.1
Total Take	0.0	0.0	00	0.0	00	00	00	00	00	00	1.1	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%		100%
Cumulative Take	0.0	0.0	00	0.0	00	00	00	00	00	00	1.1	1.1		
Cum. Take (%)	0.08	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

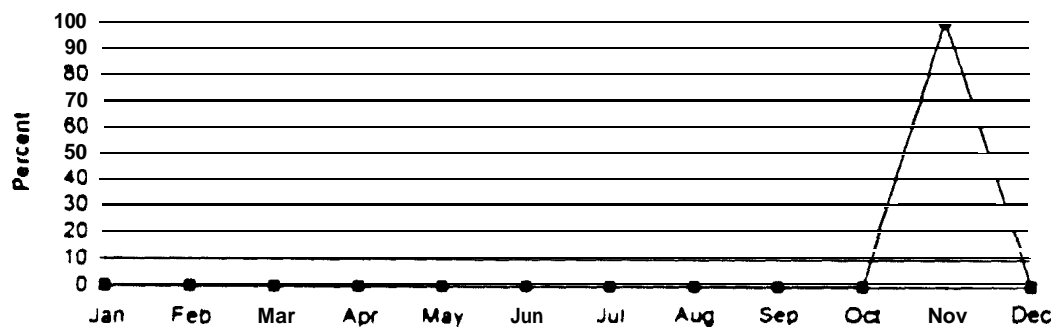
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
foul	0	—	0.0	—

SOURCE:

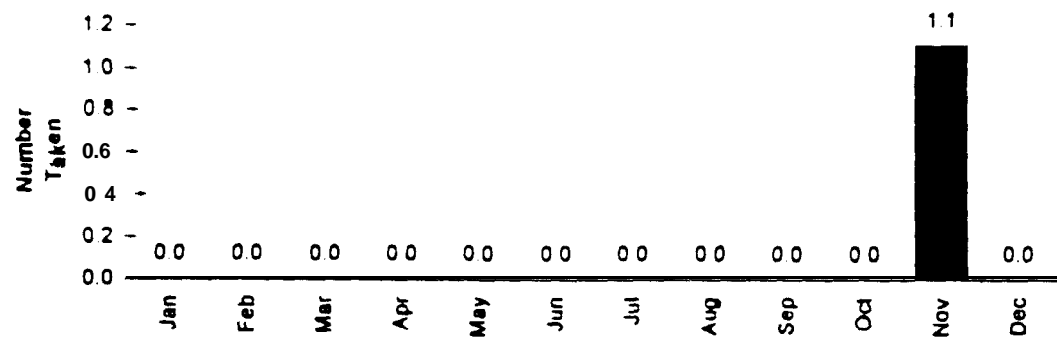
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1994.

FIGURE 27. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SITKA, 1993

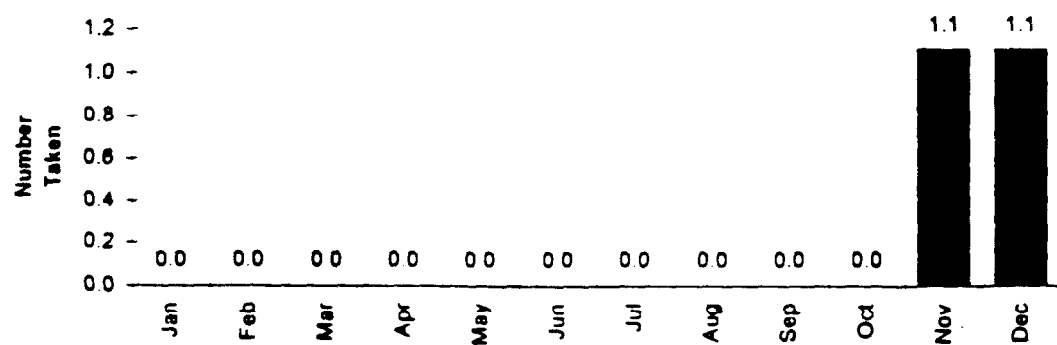
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumukhtin Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1994

TABLE 28. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SITKA, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	71	416	469
Surveyed Households	64	30	94
Sampling Fraction	90.1 %	7.2 %	19.2 %
Sample Household Members	220	112	332
Estimated Household Members	244.1	1560.5	1804.6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households
 Used 71.6 %
 Hunted 13.6 %
 Harvested 9.9 %
 Received 6.78 %
 Gave Away 250 %

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 109.3
 Total Number Struck and Lost 20.6
 Total Number Taken 129.9
 Number Harvested Per Capita 0.06

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	14	10	6	0	3	9	.	15	10	6	3	87
Struck and Lost	0	1	1	0	0	0	0	1	2	2	0	0	0	7
Total Take	2	3	15	10	6	0	3	10	9	17	10	6	3	94
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	2.2	15.5	11.1	6.7	0.0	3.3	22.8	7.8	16.6	11.1	6.7	33	109.3
Struck and Lost	0.0	1.1	1.1	0.0	0.0	0.0	0.0	13.9	2.2	2.2	0.0	0.0	0.0	20.6
Total Take	2.2	3.3	16.6	11.1	6.7	0.0	3.3	36.7	10.0	18.9	11.1	6.7	3.3	129.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	2.3	16.0	11.4	6.9	0.0	3.4	23.5	6.0	17.2	11.4	6.9		109.3
Struck and Lost	0.0	1.1	1.1	0.0	0.0	0.0	0.0	13.9	2.2	2.2	0.0	0.0		20.6
Total Take	2.3	3.4	17.1	11.4	6.9	0.0	3.4	37.5	10.2	19.4	11.4	6.9		129.9
Total Take (%)	1.8%	2.6%	13.2%	8.8%	5.3%	0.0%	2.6%	28.8%	7.9%	14.9%	8.8%	5.3%		100%
Cumulative Take	23	5.7	22.8	34.3	41.1	41.1	44.6	82.0	92.2	111.6	123.1	129.9		
Cum. Take (%)	1.8%	4.4%	17.6%	28.4%	31.6%	31.6%	34.3%	63.1%	71.0%	85.9%	94.7%	100.0%		

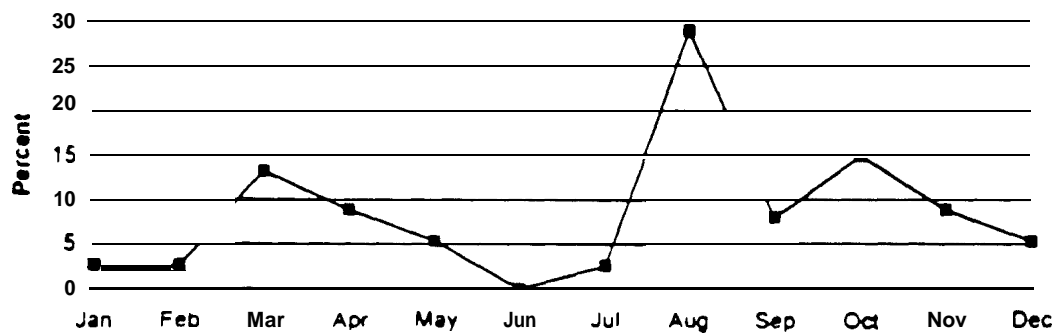
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	46	52.9 %	51.0	48.7 %
Adult Female	16	20.7 %	32.6	30.0 %
Adult Unknown Sex	21	24.1 %	23.3	21.3 %
Juvenile Male	0	0.0 %	0.0	0.0 %
Juvenile Female	0	0.0 %	0.0	0.0 %
Juvenile Unknown Sex	0	0.0 %	0.0	0.0 %
Pup Male	0	0.0 %	0.0	0.0 %
Pup Female	0	0.0 %	0.0	0.0 %
Pup Unknown Sex	1	1.1 %	1.1	1.0 %
Male Unknown Age	0	0.0 %	0.0	0.0 %
Female Unknown Age	0	0.0 %	0.0	0.0 %
Unknown Sex and Age	1	1.1 %	1.1	1.0 %
Total	67	100.0 %	109.3	100.0 %

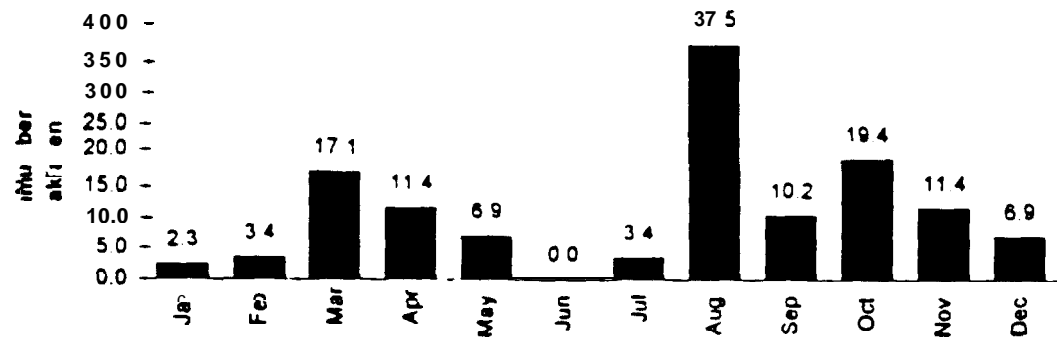
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANS and Sitka Tribal Association, 1994

FIGURE 28. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SITKA, 1993

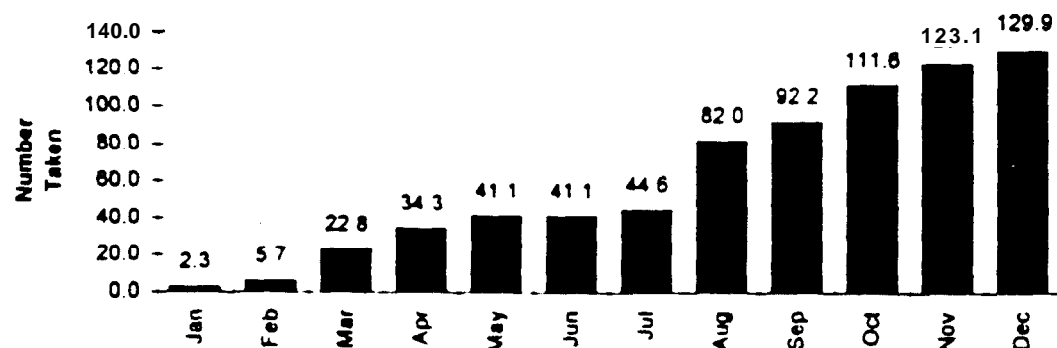
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1994.

TABLE 29. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: WRANGELL, 1993

SAMPLING DESIGN CHAIN REFERRAL

Total Sample Households	6
Surveyed Households	4
Sampling Fraction	66.7%
Sample Household Members	12
Estimated Household Members	18.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)															
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

SEA LION HARVEST BY AGE AND SEX

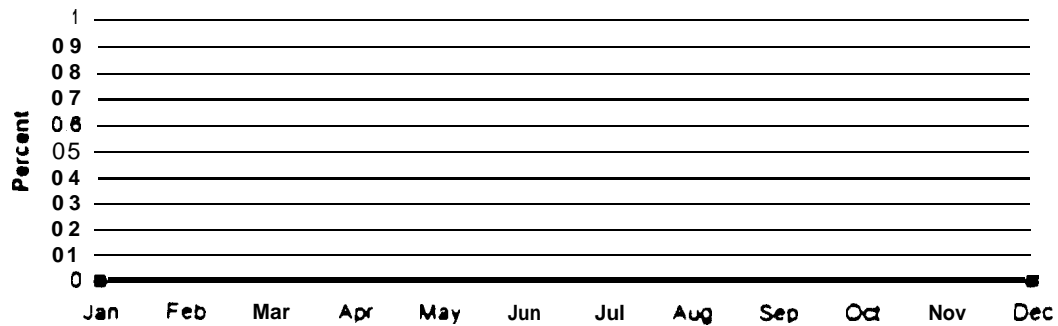
			Reported		Estimated	
			By Sample	Percent	By Community	Percent
			(Unexpanded)		(Expanded)	
Adult	Male	Sex	0	—	0.0	—
Adult	Female		0	—	0.0	—
Adult	Unknown		0	—	0.0	—
Juvenile	Male		0	—	0.0	—
Juvenile	Female		0	—	0.0	—
Juvenile	Unknown		0	—	0.0	—
Pup	Male		0	—	0.0	—
Pup	Female		0	—	0.0	—
Pup	Unknown		0	—	0.0	—
Male	Unknown	Age	0	—	0.0	—
Female	Unknown	Age	0	—	0.0	—
Unknown Sex and Age			0	—	0.0	—
Total			0	—	0.0	—

SOURCE:

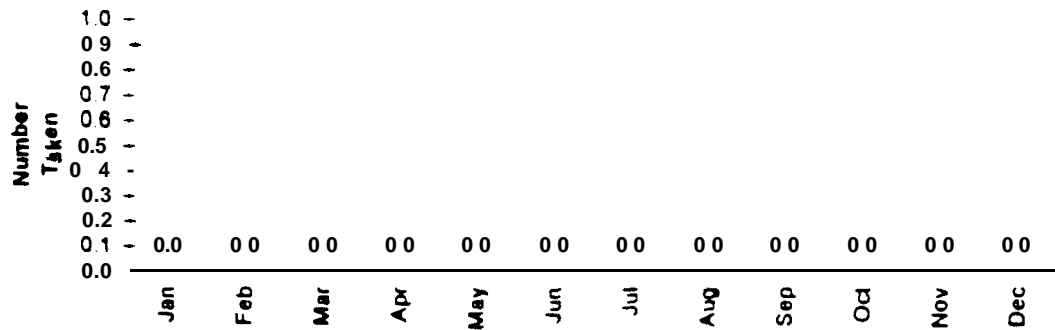
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1994.

FIGURE 29. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: WRANGELL 1993

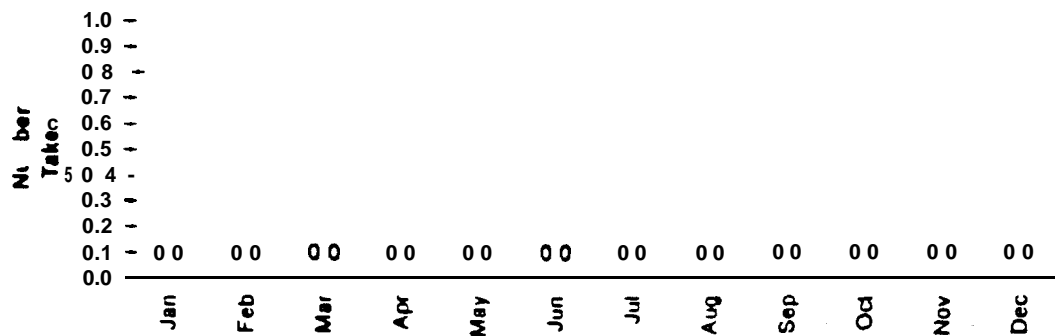
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1994.

TABLE 30. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: WRANGELL, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	8
Surveyed Households	4
Sampling Fraction	50.0 %
Sample Household Members	12
Estimated Household Members	180

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:	Estimated Community Harvest and Take (Expanded):
used 100.0 %	Total Number Harvested 19.5
Hunted 100.0 %	Total Number Struck and Lost 9.0
Harvested 100.0 %	Total Number Taken 28.5
Received 25.0 %	Number Harvested Per Capita WA
Gave Away 75.0 %	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	1	0	0	0	0	1	0	0	0	10	13
Struck and Lost	0	0	0	0	0	0	0	3	3	0	0	0	0	6
Total Taken	0	0	1	1	0	0	0	3	4	0	0	0	10	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	15.0	19.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0	0.0	0.0	0.0	9.0
Total Take	0.0	0.0	1.5	1.5	0.0	0.0	0.0	4.5	6.0	0.0	0.0	0.0	15.0	28.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	8.5	8.5	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0		19.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0	0.0	0.0		9.0
Total Take	0.0	0.0	8.5	8.5	0.0	0.0	0.0	4.5	13.0	0.0	0.0	0.0		28.5
Total Take (%)	0.0%	0.0%	22.8%	22.8%	0.0%	0.0%	0.0%	15.6%	38.6%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	8.5	13.0	13.0	13.0	13.0	17.5	28.5	28.5	28.5	28.5		
Cum. Take (%)	0.0%	0.0%	22.8%	45.6%	45.6%	45.6%	45.6%	61.4%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND S&X

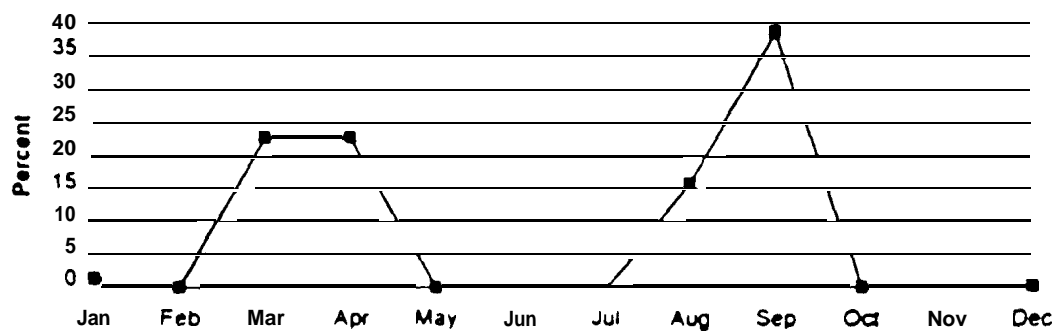
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	2	15.4%	3.0	15.4%
Adult Female	1	7.7%	1.5	7.7%
Adult Unknown Sex	7	53.8%	10.5	53.8%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	23.1%	4.5	23.1%
Total	13	100.0%	19.5	100.0%

SOURCE:

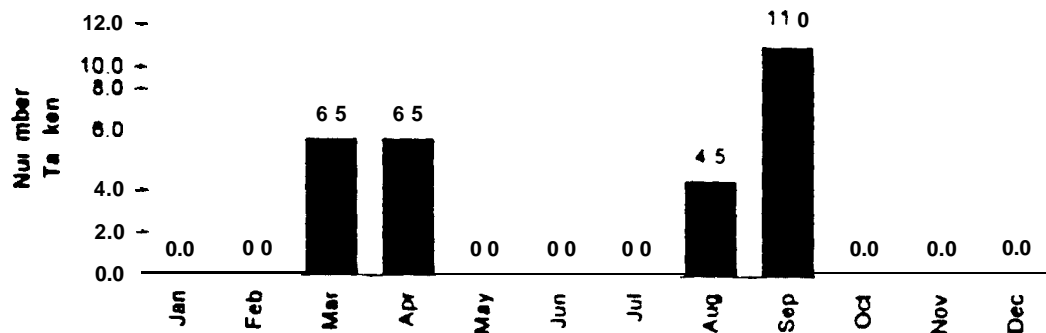
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1994

FIGURE 30. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: WRANGELL, 1993

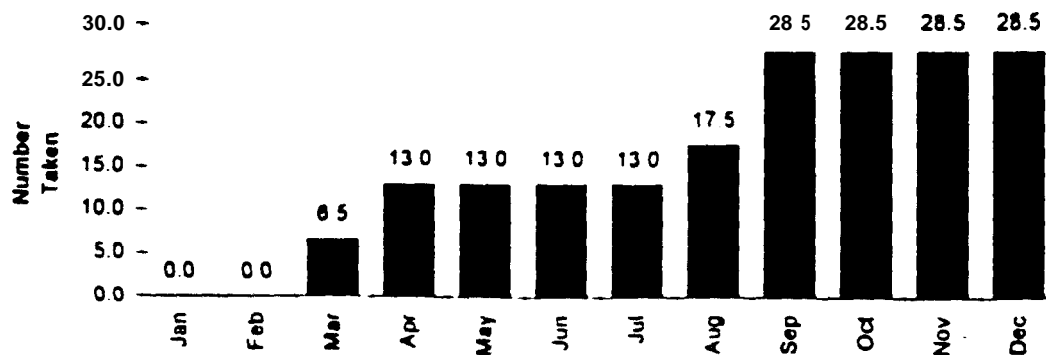
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Wrangell Cooperative Association: 1994

TABLE 31. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: YAKUTAT, 1993

SAMPLING DESIGN, CENSUS

Total Native Households	117
Surveyed Households	108
Sampling Fraction	90.6%
Sample Household Members	345
Estimated Household Members	380.8

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households		Estimated Community Harvest and Take (Expanded)	
Used	0.9%	Total Number Harvested	0.0
Hunted	0.0%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.9%	Number Harvested Per Capita	0.00
Gave Away	0.0%		

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.08	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

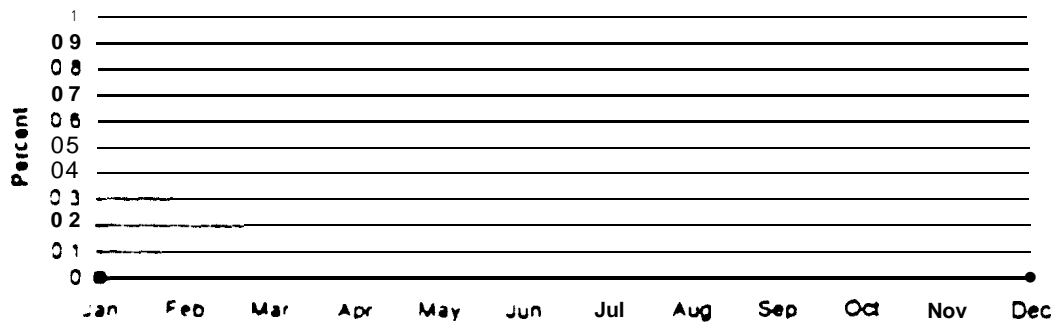
	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

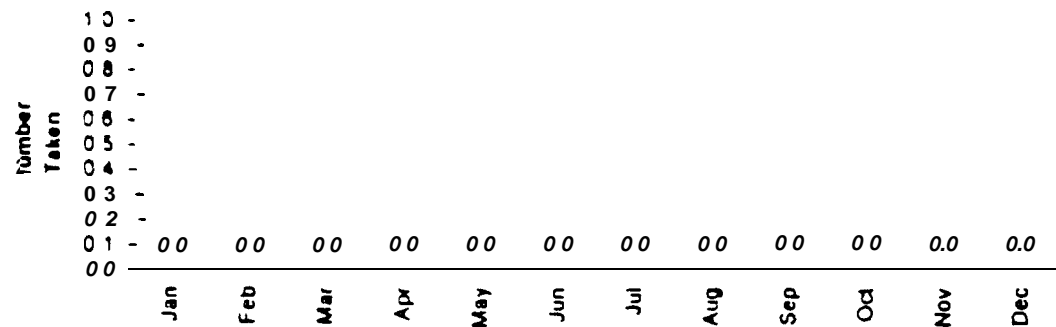
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

FIGURE 31. SEA UON (*Eumetopias jubatus*) TAKE ESTIMATES: YAKUTAT, 1993

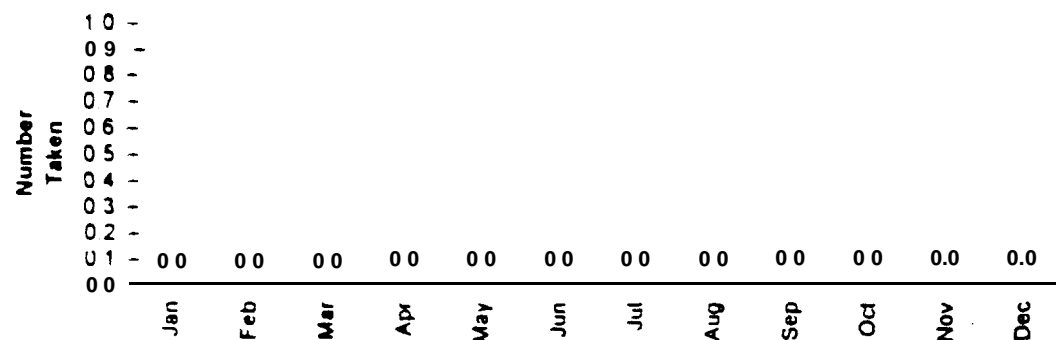
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tai Kwash, Inc., 1994.

TABLE 32. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: YAKUTAT, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	117
Surveyed Households	106
Sampling Fraction	90.8%
Sample Household Members	345
Estimated Household Members	380.8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded).
Used 93.4%	Total Number Harvested 568.4
Hunted 33.0%	Total Number Struck and Lost 57.4
Harvested 31.1%	Total Number Taken 625.8
Received 88.7%	Number Harvested Per Capita 1.49
Gave Away 60.4%	

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Totals
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	45	49	31	52	44	28	32	38	24	17	41	35	79	515
Struck and Lost	0	0	2	0	1	3	5	0	9	a	1	2	21	52
Total Take	45	49	33	52	45	31	37	38	33	25	42	37	100	567
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	49.7	54.1	34.2	57.4	48.8	30.9	35.3	41.9	26.5	18.8	45.3	38.6	87.2	568.4
Struck and Lost	0.0	0.0	2.2	0.0	1.1	3.3	5.5	0.0	9.9	6.6	1.1	2.9	23.2	57.4
Total Take	49.7	54.1	36.4	57.4	49.7	34.2	40.8	41.9	36.4	25.4	46.4	40.8	110.4	625.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	58.7	63.9	40.4	67.8	57.4	36.5	41.7	49.5	31.3	22.2	s.5	45.6		568.4
Struck and Lost	0.0	0.0	3.7	0.0	1.9	5.6	9.3	0.0	16.7	14.8	1.9	3.7		57.4
Total Take	58.7	63.9	44.1	67.8	59.2	42.1	51.0	49.5	48.0	no	55.3	49.3		625.8
Total Take (%)	9.4%	10.2%	7.0%	ro n	9.5%	on	8.1%	7.9%	7.7%	5.9%	6.6%	7.9.8		100%
Cumulative Take	58.7	122.6	166.7	234.5	293.7	335.7	386.7	436.3	484.2	521.2	576.5	625.8		
Cum. Take (%)	9.4%	19.6%	26.6%	37.5%	46.9%	53.6%	61.8%	69.7%	77.4%	83.3%	92.1%	100.0%		

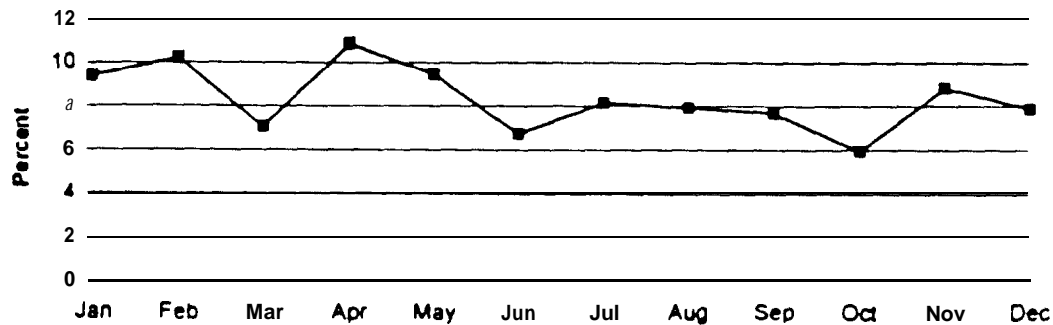
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Mutt Male	180	35.0%	198.7	35.0%
Adult Female	100	19.4%	110.4	19.4%
Adult Unknown Sex	102	19.8%	112.6	19.8%
Juvenile Male	6	1.2%	6.6	1.2%
Juvenile Female	3	0.6%	3.3	0.6%
Juvenile Unknown Sex	16	3.1%	17.7	3.1%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	11	2.1%	12.1	2.1%
Male Unknown Age	2	0.4%	2.2	0.4%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex • ncl Age	95	18.4%	104.9	18.4%
Total	515	100.0%	568.4	100.0%

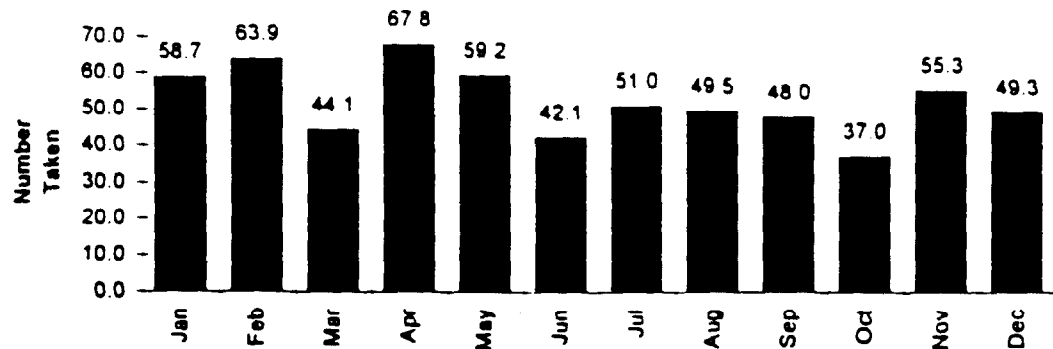
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

FIGURE 32. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: YAKUTAT, 1993

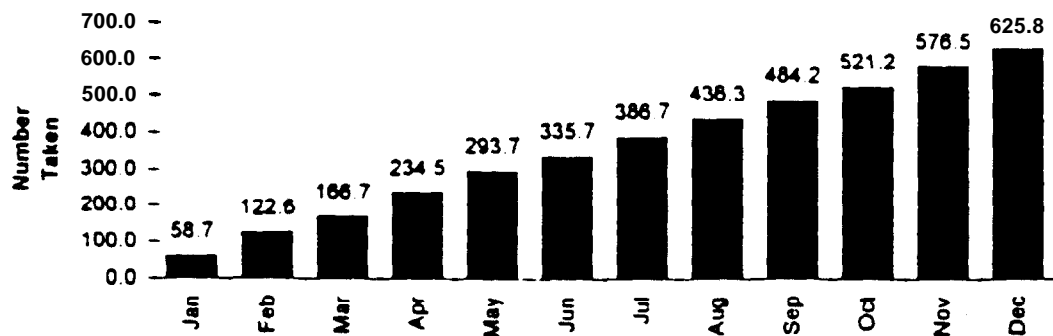
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1994.

NORTH **PACIFIC** RIM

TABLE 34. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHENEGA BAY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	21
Surveyed Households	19
Sampling Fraction	90.5%
Sample Household Members	74
Estimated Household Members	81.8

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	
Used	84.2%
Hunted	83.2%
Harvested	57.9%
Received	78.9%
Gave Away	47.4%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	60.8
Total Number Struck and Lost	2.2
Total Number Taken	63.0
Number Harvested Per Capita	0.74

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	3	3	2	13	7	0	12	6	3	55
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Take	0	0	0	0	3	3	2	13	7	0	12	6	5	57
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.4	0.0	0.0	0.0	3.3	3.3	2.2	14.4	7.7	0.0	13.3	6.6	3.3	60.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
Total Take	4.4	0.0	0.0	0.0	3.3	3.3	2.2	14.4	7.7	0.0	13.3	6.6	5.5	63.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.7	0.0	0.0	0.0	3.8	3.3	2.3	15.2	6.2	0.0	14.0	7.0		60.8
Struck and Lost	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		2.2
Total Take	4.9	0.2	0.2	0.2	6.0	3.7	2.5	15.4	8.4	0.2	14.2	7.2		63.0
Total Take RI	7.7%	0.3%	0.3%	0.3%	9.6%	5.9%	4.0%	24.4%	13.3%	0.3%	22.6%	11.4%		100%
Cumulative Take	4.9	5.0	5.2	5.4	11.4	15.1	17.7	33.0	41.4	41.6	55.8	63.0		
Cum Take (%)	7.7%	8.0%	8.3%	8.6%	18.2%	24.0%	28.0%	52.4%	65.7%	66.0%	88.6%	100.0%		

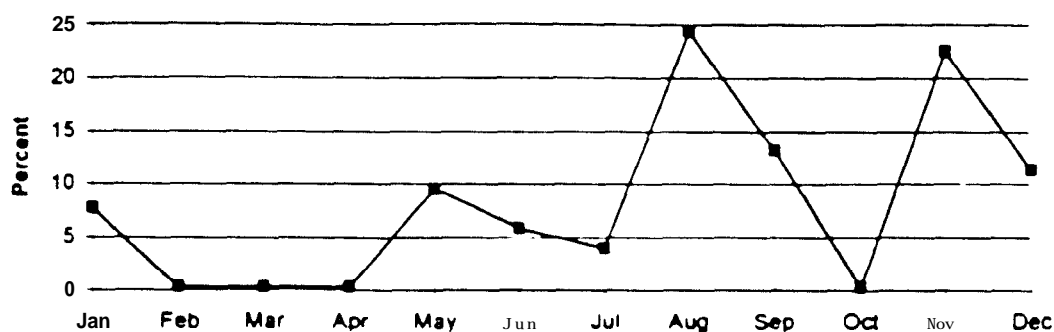
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent
Adult Male	9	16.4%	9.9	16.4%
Adult Female	4	7.3%	4.4	7.3%
Adult Unknown Sex	14	25.5%	15.5	25.5%
Juvenile Male	4	7.3%	4.4	7.3%
Juvenile Female	3	5.5%	3.3	5.5%
Juvenile Unknown Sex	14	25.5%	15.5	25.5%
Pup Male	1	1.6%	1.1	1.6%
Pup Female	1	1.8%	1.1	1.8%
Pup Unknown Sex	2	3.0%	2.2	3.6%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	5.5%	3.3	5.5%
Total	55	100.0%	60.8	100.0%

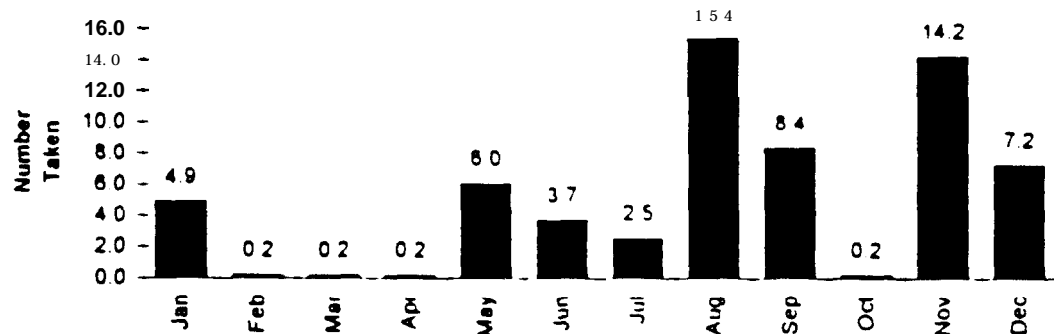
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1994.

FIGURE 34. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHENEGA BAY, 1993

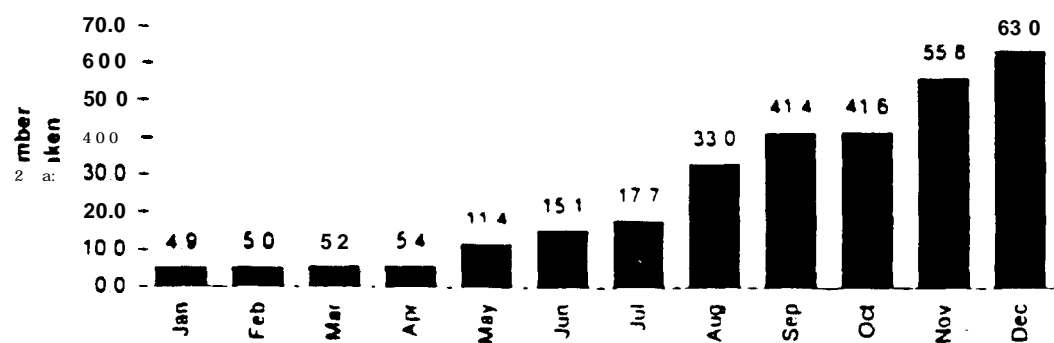
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1994.

TABLE 35. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CORDOVA, 1993

SAMPLING DESIGN: THREE STRATA

	Active	Other	Total
Total Native Households	1	3	181
Surveyed Households	9	19	28
Sampling Fraction	69.2%	11.3%	15.5%
Sample Household Members	26	43	69
Estimated Household Members	37.5	380.2	417.7

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:	
Used	0.6%
Hunted	0.8%
Harvested	0.8%
Received	0.0%
Gave Away	0.6%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	1.5
Total Number Struck and Lost	0.0
Total Number Taken	1.5
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
ESTIMATED SEASONALLY ADJUSTED HARVEST BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Cum Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

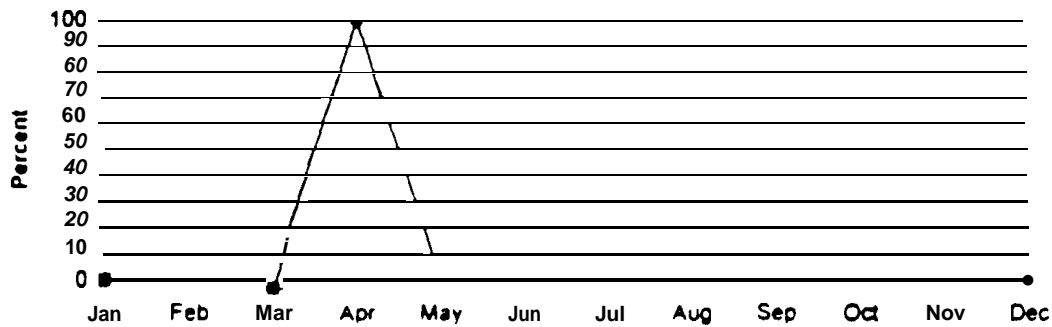
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.5	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.5	100.0%

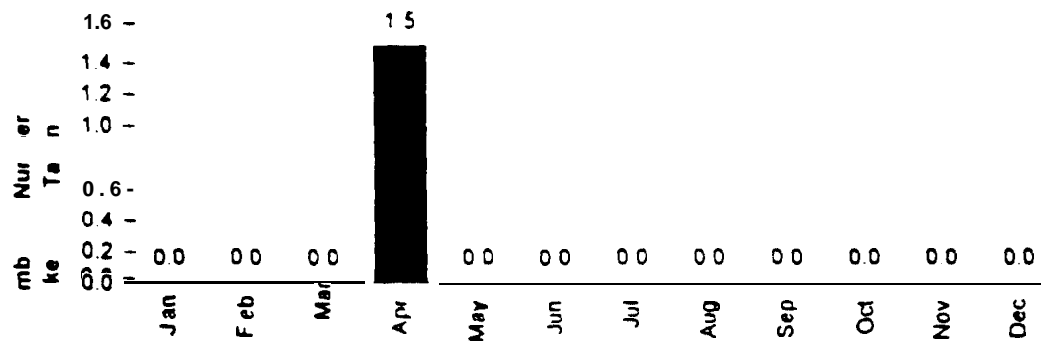
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 1994

FIGURE 35. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CORDOVA. 1993

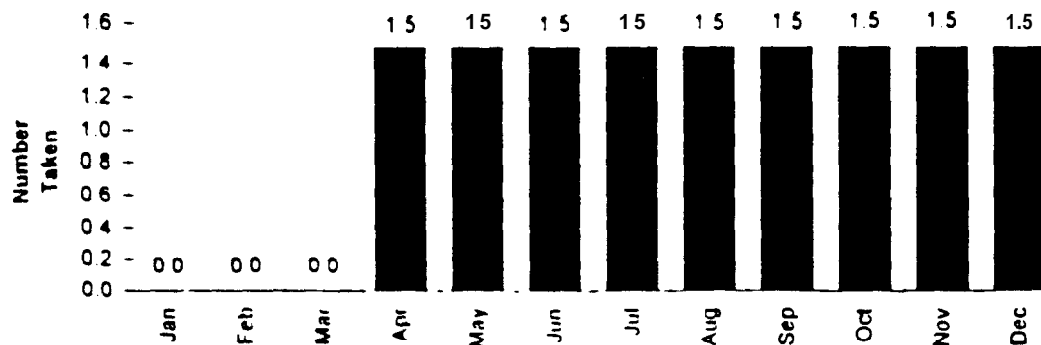
A. Percentage Seasonally Adjusted Take By Month



8. Seasonally Adjusted Take By Month



c. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Treadone Village of Eyak, 1994

TABLE 36. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CORDOVA, 1993

SAMPLING DESIGN: THREE STRATA

	Active	Other	Total
Total Native Households	13	168	181
Surveyed Households	9	18	28
Sampling Fraction	69.2%	11.3%	15.5%
Sample Household Members	26	43	69
Estimated Household Members	37.5	380.2	417.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 44.7%	Total Number Harvested 147.4
Hunted 16.2%	Total Number Struck and Lost 5.5
Harvested 6.1%	Total Number Taken 152.9
Received 44.7%	Number Harvested Per Capita 0.35
Gave Away 16.6%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST BY SAMPLED HOUSEHOLDS (UNEXPANDED):														
Harvest	0	0	0	0	0	0	0	0	16	44	38	9	0	107
Struck and Lost	0	0	0	0	0	0	0	0	1	2	2	0	0	5
Total Take	0	0	0	0	0	0	0	0	17	46	40	9	0	112
ESTIMATED HARVEST BY COMMUNITY (EXPANDED):														
Harvest	00	00	00	00	00	00	00	00	23.8	80.7	49.3	13.5	0.0	147.4
Struck and Lost	00	00	00	00	00	00	00	00	1.0	2.0	2.5	0.0	0.0	5.5
Total Take	00	00	00	00	00	00	00	00	24.8	82.7	51.8	13.5	0.0	152.9
ESTIMATED SEASONALLY ADJUSTED HARVEST BY COMMUNITY (EXPANDED):														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	80.7	49.3	13.5		147.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.5	0.0		5.5
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	82.7	51.8	13.5		152.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.3%	41.0%	33.9%	8.8%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	87.5	139.4	152.9		
Cumulative Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.3%	57.3%	91.2%	100.0%		

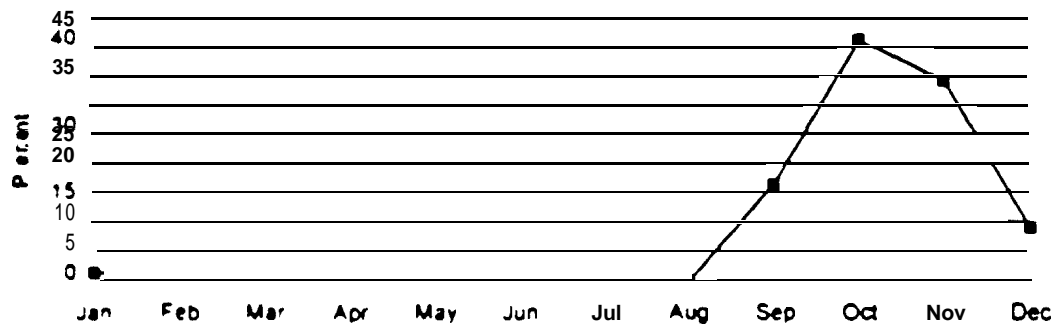
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	89	84.58%	93.2	63.2%
Adult Female	27	25.2%	35.3	24.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	6	5.6%	13.8	9.4%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	5	4.7%	5.0	3.4%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	107	100.0%	147.4	100.0%

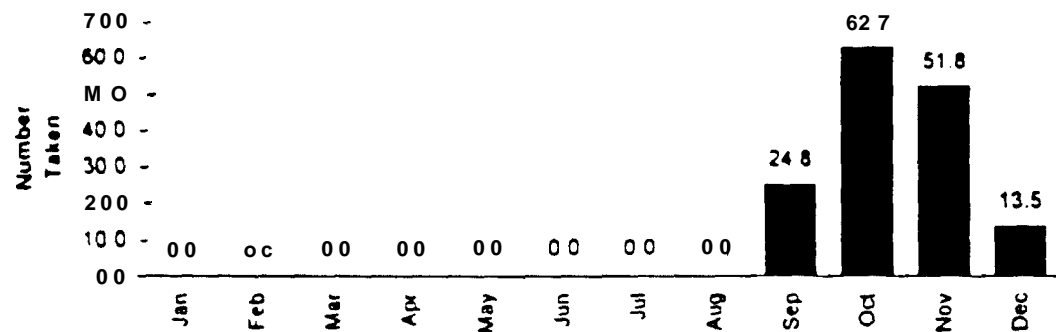
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Traditional Village of Eyak, 1994

FIGURE 38. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CORDOVA, 1993

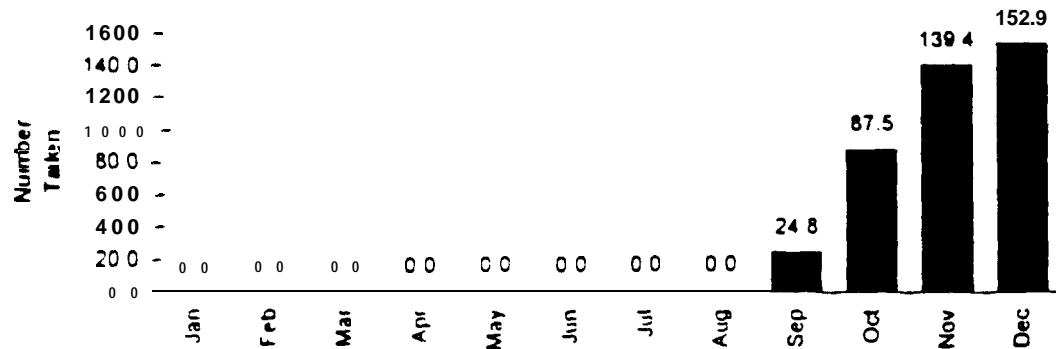
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Traditional Village of Eyak, 1994

TABLE 37. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NANWALEK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	38
Surveyed Households	33
Sampling Fraction	91.7%
Sample Household Members	129
Estimated Household Members	140.7

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households used 81.8%	E -	Community Harvest and Take (Expanded).
Hunted 21.2%		Total Number Harvested 8.7
Harvested 12.1%		Total Number Struck and Lost 1.1
Received 81.8%		Total Number Taken 9.8
Gave Away 75.8%		Number Harvested Per Capita 0.06

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	1	0	0	0	1	1	4	8
Struck and Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Take	0	0	0	0	0	2	1	0	0	0	1	1	4	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	4.4	8.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	0.0	0.0	1.1	1.1	4.4	9.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	2.2	2.1	0.0	0.0	0.0	2.2	2.2		6.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take	0.0	0.0	0.0	0.0	0.0	3.3	2.2	0.0	0.0	0.0	2.2	2.2		9.8
T o w Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	22.2%	0.0%	0.0%	0.0%	22.2%	22.2%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	3.3	5.5	5.5	5.5	5.5	7.6	9.8		
Cum Take (%)	0.08	0.0%	0.0%	0.0%	0.0%	33.3%	55.6%	55.6%	55.6%	55.6%	77.8%	100.0%		

SEA LION HARVEST BY AGE AND SEX:

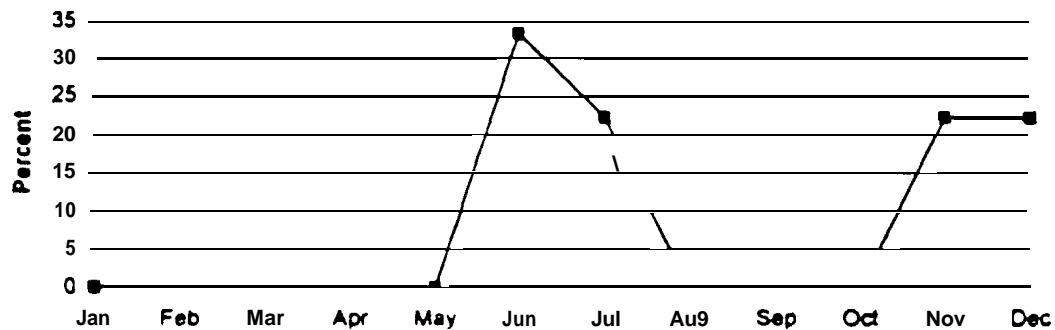
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	37.5%	3.3	37.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	4	50.0%	4.4	50.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	1	12.5%	1.1	12.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100.0%	8.7	100.0%

SOURCE

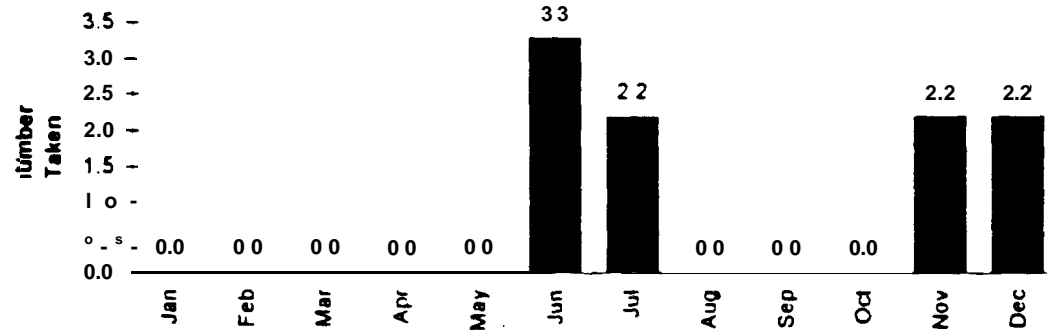
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1994.

FIGURE 37. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NANWALEK, 1993

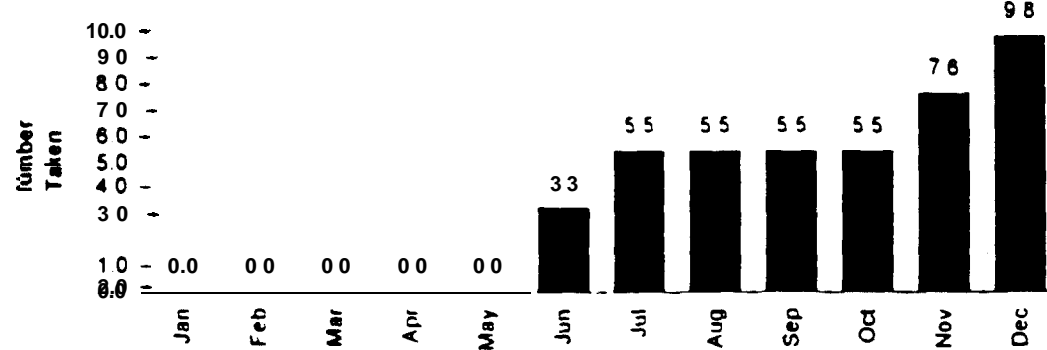
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1994

TABLE 38. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NANWALEK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	36
Surveyed Households	33
Sampling Fraction	91.7%
Sample Household Members	129
Estimated Household Members	1407

HARBOR SEAL HARVEST AND USE INFORMATION

<i>Percent Of Native Households</i>	<i>E</i>	<i>-</i>	<i>Community Harvest and Take (Expanded):</i>
Used 97.0%			Total Number Harvested 29.5
Hunted 39.4%			Total Number Struck • MLost 3.3
Harvested 30.3%			Total Number Taken 32.7
Received 93.9%			Number Harvested Per Capita 0.21
Cave Away 90.9%			

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	0	5	5	7	2	1	2	0	2	2	27
Struck and Lost	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Total Take	0	1	0	0	8	5	7	2	1	2	0	2	2	30
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	0.0	0.0	5.5	5.5	7.6	2.2	1.1	2.2	0.0	2.2	2.2	29.5
Struck and Lost	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Total Take	0.0	1.1	0.0	0.0	8.7	5.5	7.6	2.2	1.1	2.2	0.0	2.2	2.2	32.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.2	0.0	0.0	5.9	5.9	8.2	2.4	1.2	2.4	0.0	2.4		29.5
Struck and Lost	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.3
Total Take	0.0	1.2	0.0	0.0	9.2	5.9	8.2	2.4	1.2	2.4	0.0	2.4		32.7
Total Take (%)	0.0%	3.6%	0.0%	0.0%	28.0%	18.0%	25.2%	7.2%	3.6%	7.2%	0.0%	7.2%		100%
Cumulative Take	0.0	1.2	1.2	1.2	10.3	16.2	24.5	26.6	28.0	30.4	30.4	32.7		
Cum Take (%)	0.0%	3.6%	3.6%	3.6%	31.6%	49.6%	74.8%	82.0%	85.6%	92.8%	92.8%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

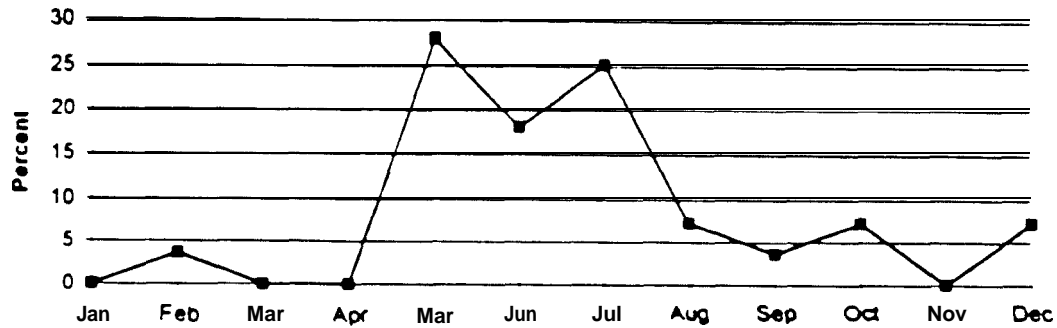
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Mull Male	9	33.3%	9.8	33.3%
Mull Female	1	3.7%	1.1	3.7%
Adult Unknown Sex	7	25.9%	7.6	25.9%
Juvenile Male	6	22.2%	6.5	22.2%
Juvenile Female	3	11.1%	3.3	11.1%
Juvenile Unknown Sex	1	3.7%	1.1	3.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
PUP Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	27	100.0%	29.5	100.0%

SOURCE

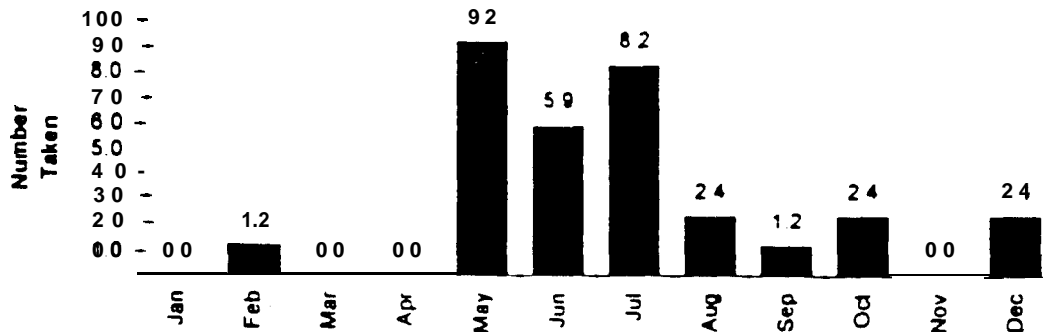
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1994

FIGURE 38. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NANWALEK, 1 993

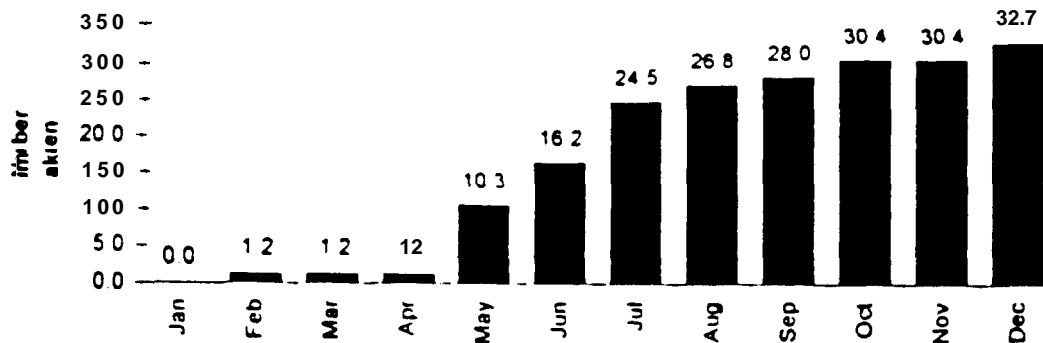
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1994.

TABLE 39. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	59
Surveyed Households	56
Sampling Fraction	94.9%
Sample Household Members	155
Estimated Household Members	163.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:		Estimated Community Harvest and Take (Expanded):	
Used	12.5%	Total Number Harvested	1.1
Hunted	7.1%	Total Number Struck and Lost	0.0
Harvested	1.8%	Total Number Taken	1.1
Received	12.5%	Number Harvested Per Capita	0.01
Gave Away	3.6%		

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take (%)	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Cum Take (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

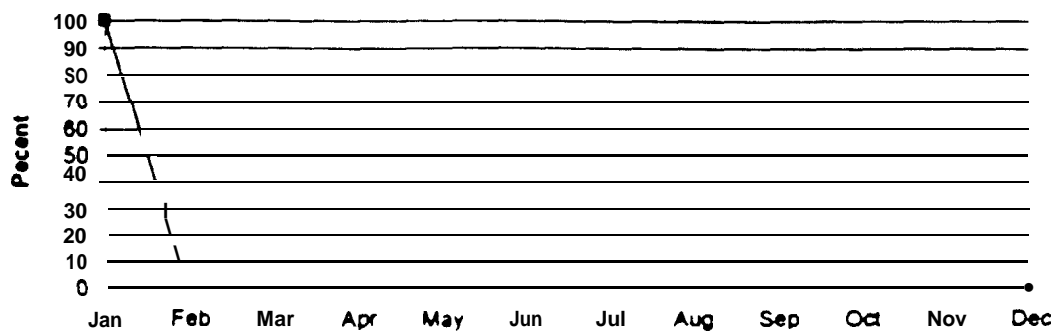
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown sex	0	0.0%	0.0	0.0%
Juvenile Male	1	100.0%	1.1	100.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

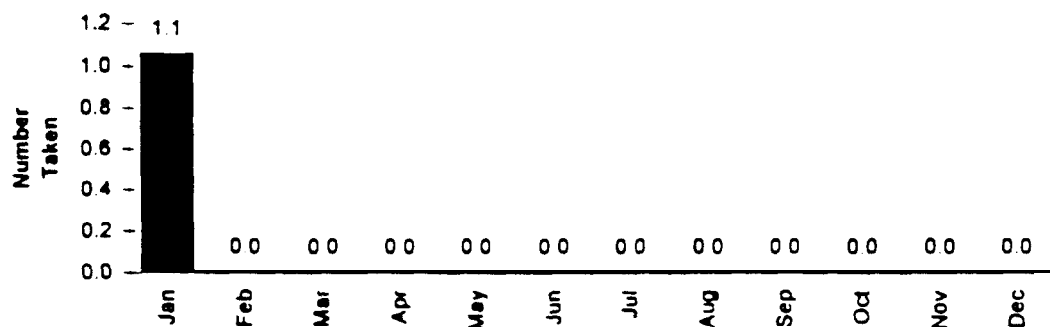
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1994.

FIGURE 39. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT GRAHAM, 1993

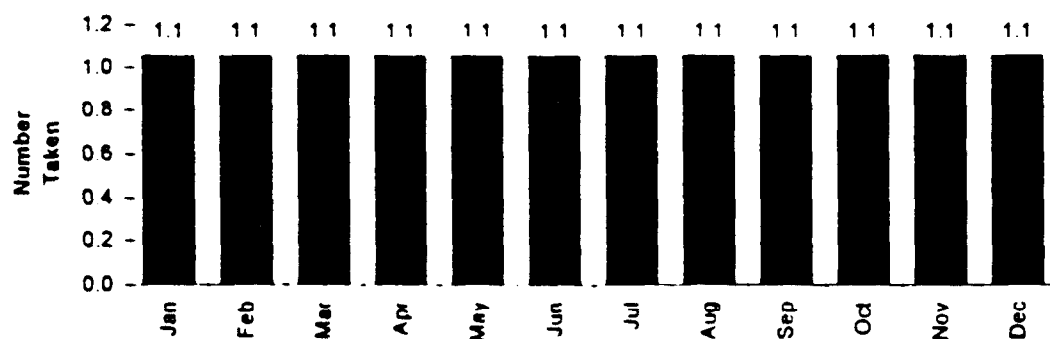
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1994.

TABLE 44. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1993

SAMPLING DESIGN CENSUS

Total Native Households	59
Surveyed Households	58
Sampling Fraction	94.9%
Sample Household Members	155
Estimated Household Members	163.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households

Used	89.3%
Hunted	33.9%
Harvested	26.8%
Received	89.3%
Gave Away	26.8%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	31.6
Total Number Struck and Lost	3.2
Total Number Taken	34.8
Number Harvested Per Capita	0.19

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	4	9	1	0	1	0	2	3	0	0	7	2	30
Struck and Lost	0	0	0	1	0	0	0	1	1	0	0	0	0	3
Total Take	1	4	9	2	0	1	0	3	4	0	0	7	2	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	4.2	9.5	1.1	0.0	1.1	0.0	2.1	3.2	0.0	0.0	7.4	2.1	31.6
Struck and Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	3.2
Total Take	1.1	4.2	9.5	2.1	0.0	1.1	0.0	3.2	4.2	0.0	0.0	7.4	2.1	34.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	4.5	10.2	1.1	0.0	1.1	0.0	2.3	3.4	0.0	0.0	7.9		31.6
Struck and Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0		3.2
Total Take	1.1	4.5	10.2	2.2	0.0	1.1	0.0	3.3	4.4	0.0	0.0	7.9		34.8
Total Take (%)	3.2%	13.0%	29.2%	6.3%	0.0%	3.2%	0.0%	9.5%	12.8%	0.0%	0.0%	22.7%		100%
Cumulative Take	1.1	5.6	15.8	18.0	18.0	19.1	19.1	22.4	25.9	25.9	25.9	34.8		
Cum. Take (%)	3.2%	16.2%	45.5%	51.7%	51.7%	55.0%	55.0%	64.5%	77.3%	77.3%	77.3%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

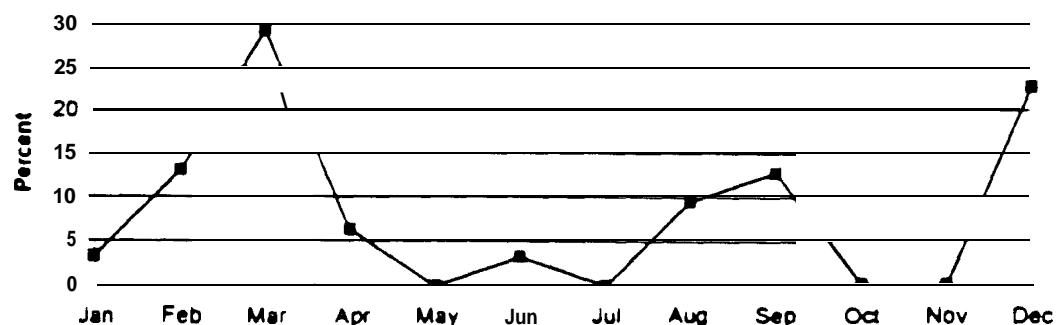
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	6	200%	6.3	20.0%
Adult Female	7	23.3%	7.4	23.3%
Adult Unknown Sex	5	16.7%	5.3	16.7%
Juvenile Male	5	16.7%	5.3	16.7%
Juvenile Female	2	6.7%	2.1	6.7%
Juvenile Unknown Sex	2	6.7%	2.1	6.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	2	6.7%	2.1	6.7%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	3.3%	1.1	3.3%
Total	30	1000%	31.6	1000%

SOURCE

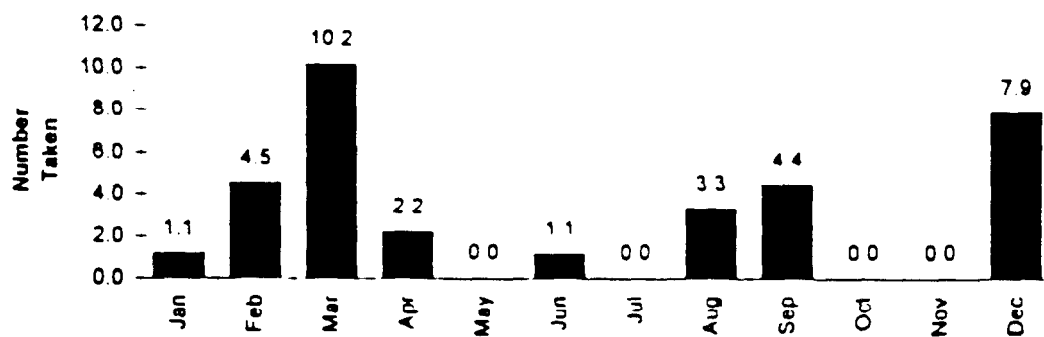
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1994.

FIGURE 40. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT GRAHAM, 1993

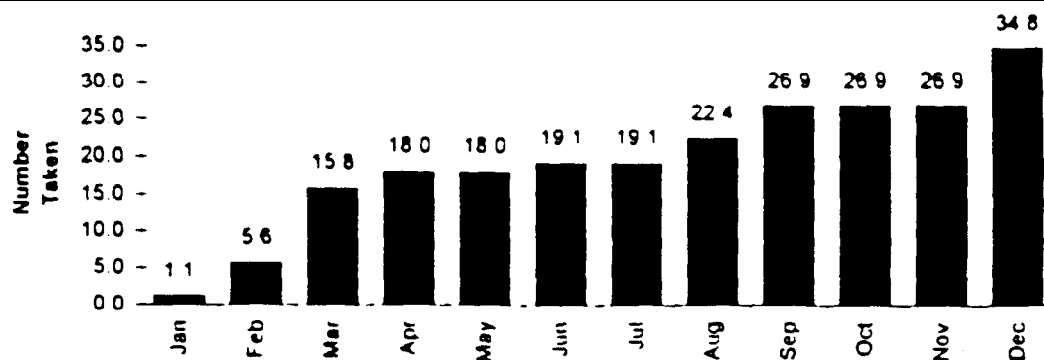
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1994.

TABLE 41. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SELDOVIA, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	5	49	54
Surveyed Households	5	25	30
Sampling Fraction	100.0%	510%	55.6%
Sample Household Members	14	65	79
Estimated Household Members	14.0	127.4	141.4

SEA LION HARVEST AND USE INFORMATION

Percent of Native Households:	E	-	Community Harvest and Take (Expanded)
Used	3.6%		Total Number Harvested
Hunted	3.6%		Total Number Struck and Lost
Harvested	0.0%		Total Number Taken
Received	3.8%		Number Harvested Per Capita
Gave Away	3.6%		

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

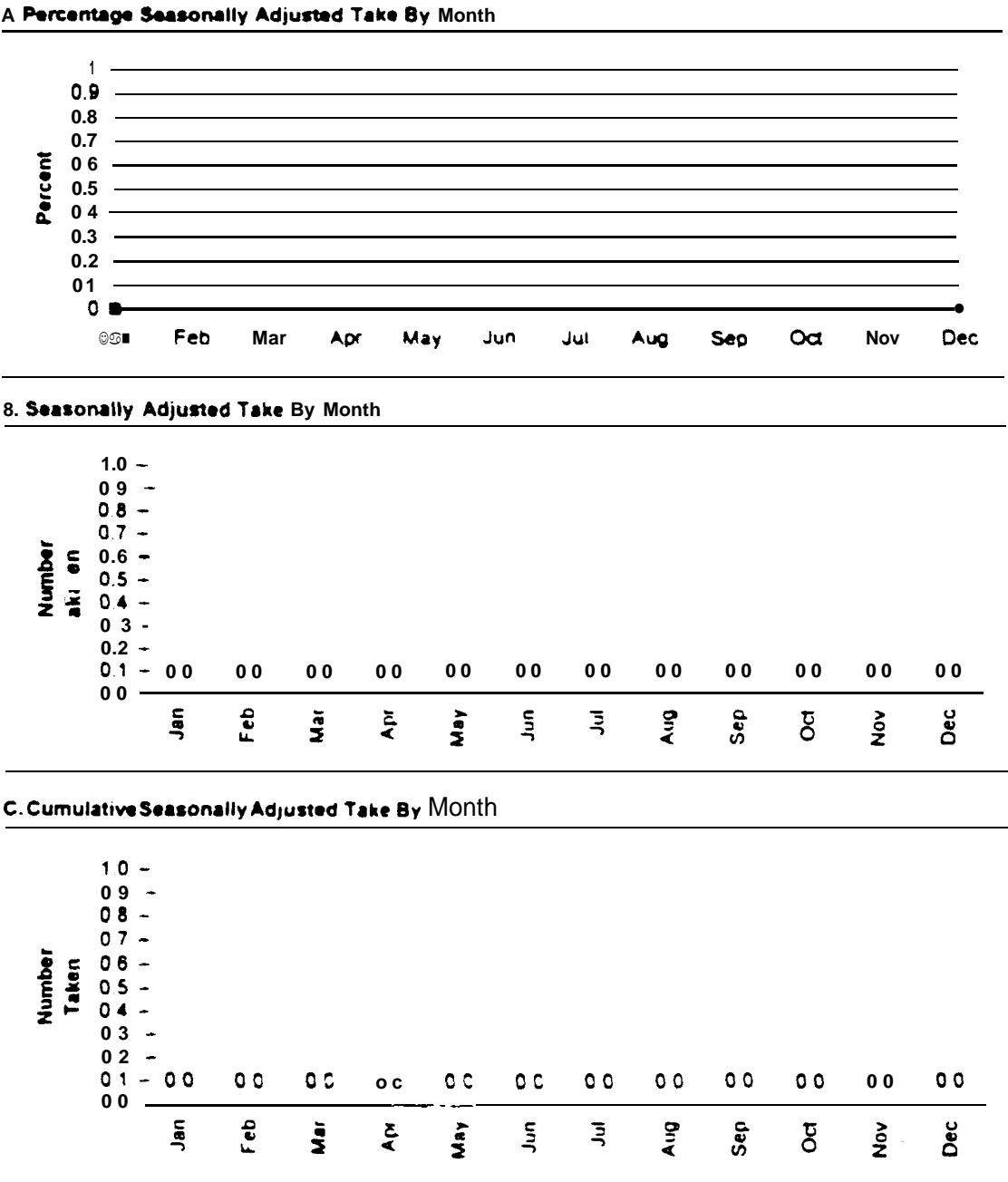
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1994.

FIGURE 41. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SELDOVIA, 1993



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1994.

TABLE 42. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SELDOVIA, 1993

SAMPLING DESIGN: TWO STRATA

	Active	other	Total
Total Native Households	5	49	54
Surveyed Households	5	25	30
Sampling Fraction	100.0%	51.0%	55.6%
Sample Household Members	14	65	79
Estimated Household Members	14.0	127.4	141.4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 34.6%	Total Number Harvested 7.9
Hunted 16.3%	Total Number Struck and Lost 4.9
Harvested 11.0%	Total Number Taken 12.8
Received 27.3%	Number Harvested Per Capita 0.06
Gave Away 14.6%	

HARBOR SEAL HARVEST BY SEASON														Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	2	0	0	2	1	0	0	5	
Struck and Lost	0	0	0	0	0	0	2	0	0	0	1	0	0	3	
Total Take	0	0	0	0	0	0	4	0	0	2	2	0	0	8	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	00	00	00	00	00	00	39	00	00	30	10	00	0.0	7.9	
Struck and Lost	00	00	00	00	00	00	39	00	00	00	10	00	0.0	4.9	
Total Take	00	00	00	00	00	00	78	00	00	30	20	00	0.0	12.8	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	30	10	0.0		7.9	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	10	0.0		4.9	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	78	0.0	0.0	30	20	0.0		12.8	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	61.3%	0.0%	0.0%	23.1%	15.6%	0.0%		100%	
Cumulative Take	00	00	00	00	00	00	78	78	78	108	128	128			
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	61.3%	61.3%	61.3%	84.4%	100.0%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

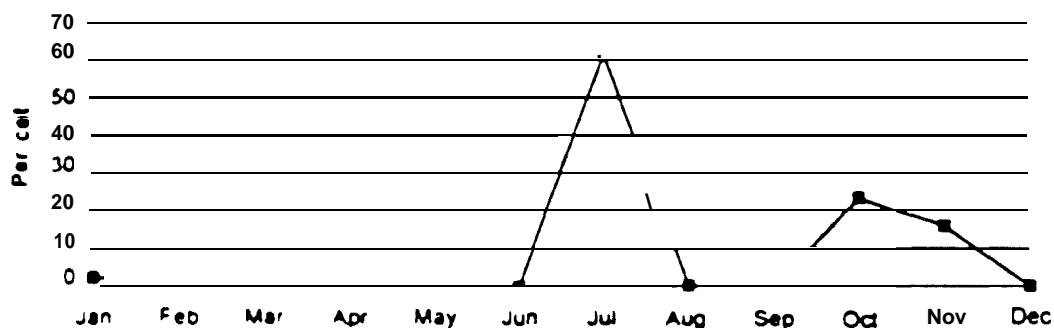
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	1	20.0%	10	12.7%
Adult Female	1	20.0%	10	12.7%
Adult Unknown Sex	0	0.0%	00	0.0%
Juvenile Male	1	20.0%	20	24.9%
Juvenile Female	0	0.0%	00	0.0%
Juvenile Unknown Sex	0	0.0%	00	0.0%
Pup Male	0	0.0%	00	0.0%
Pup Female	0	0.0%	00	0.0%
Pup Unknown Sex	0	0.0%	00	0.0%
Male Unknown Age	0	0.0%	00	0.0%
Female Unknown Age	0	0.0%	00	0.0%
Unknown Sex and Age	2	40.0%	39	49.7%
Total	5	100.0%	79	100.0%

SOURCE

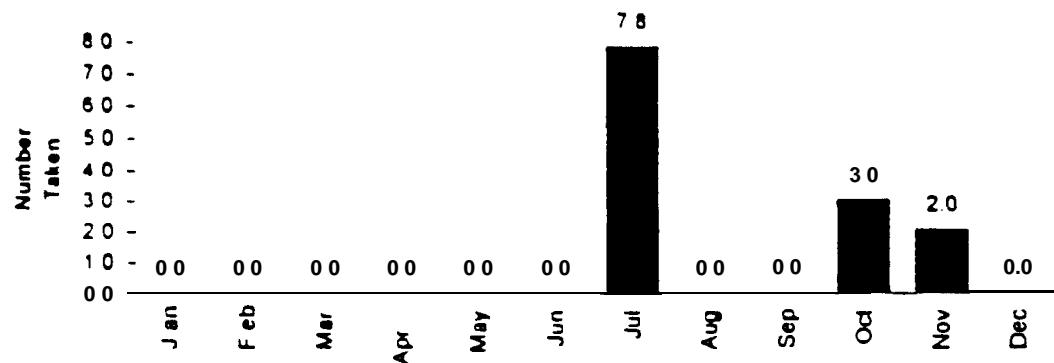
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1994.

FIGURE 42. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SELDOVIA, 1993

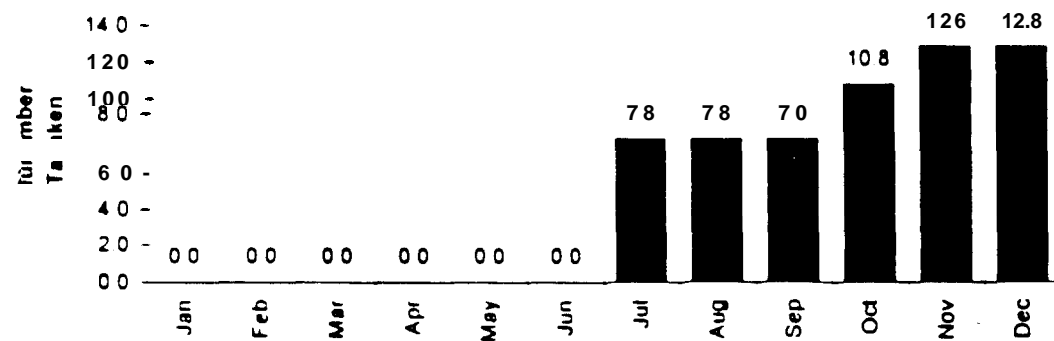
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1994.

TABLE U. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SEWARD, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	11	145	156
Surveyed Households	9	18	27
Sampling Fraction	81.8%	12.4%	17.3%
Sample Household Members	34	47	81
Estimated Household Members	41.6	378.6	420.2

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded).

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—													
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

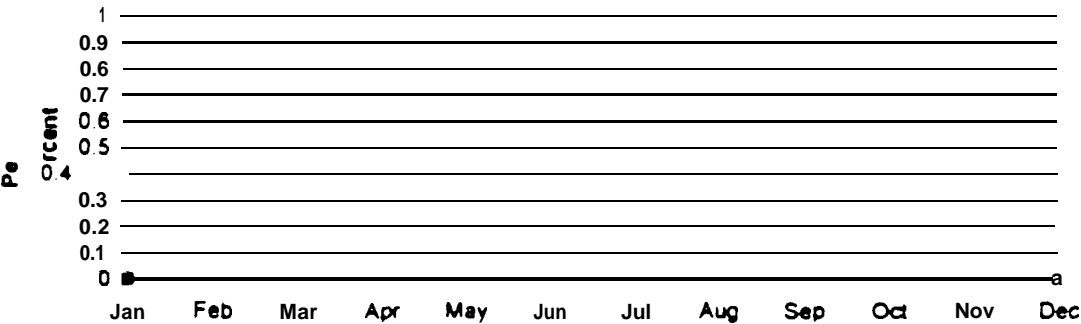
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

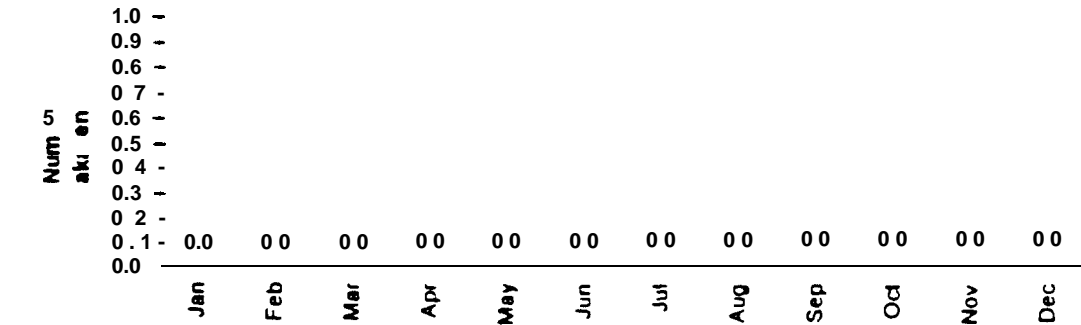
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Quiverclark Native Tribe, 1994.

FIGURE U. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SEWARD, 1993

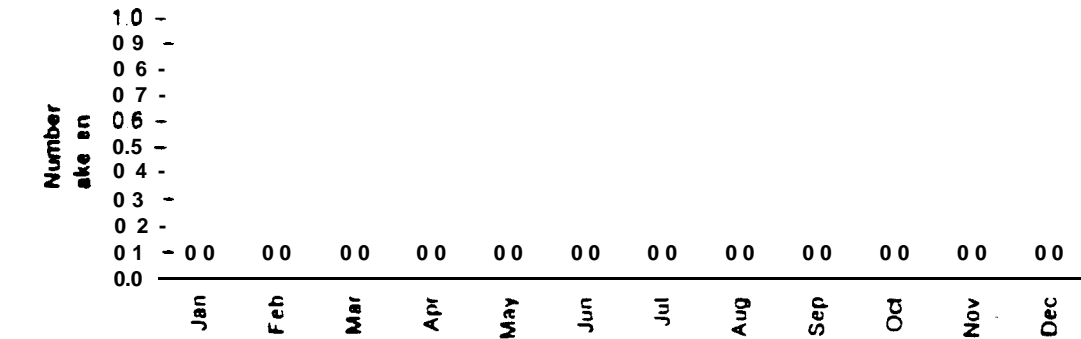
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Outercoast Native Tribe, 1994.

TABLE 44. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SEWARD, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	11	14s	156
Surveyed Households	9	18	27
Sampling Fraction	81.6%	12.4%	17.3%
Sample Household Members	34	47	61
Estimated Household Members	41.6	3766	4202

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 0.6%	Total Number Harvested 0.0
Hunted 0.6%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.6%	Number Harvested Per Capita 0.00
Gave Away 0.0%	

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TM BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Tow Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)			—	—										
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

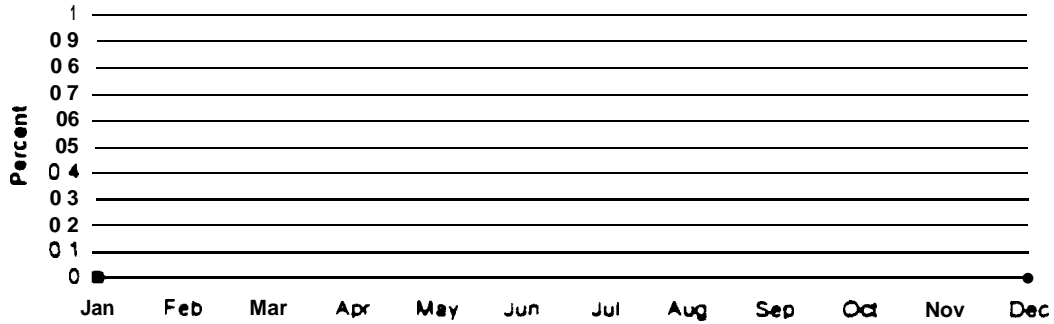
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE

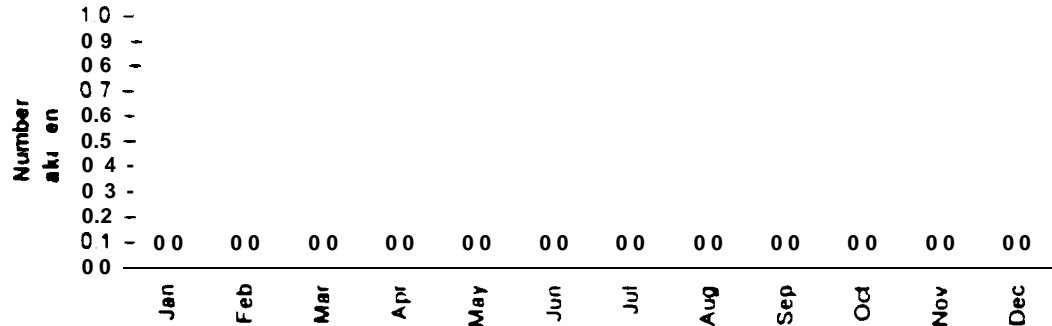
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcaik Native Tribe, 1994

FIGURE 44. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SEWARD, 1993

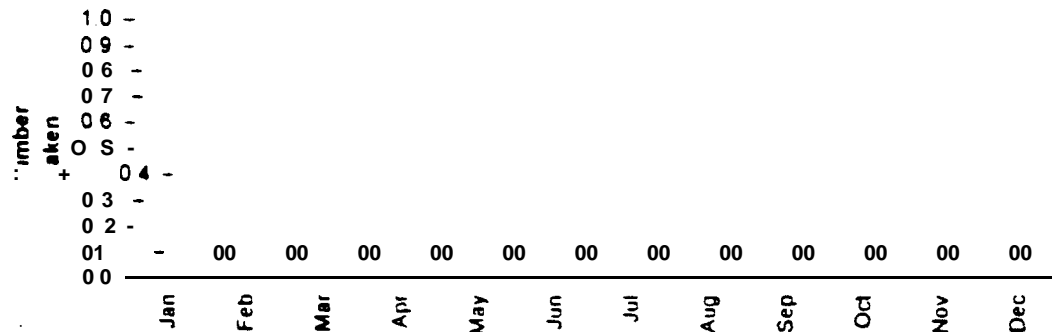
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Outercoak Native Tribe, 1994.

TABLE 46. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: TATITLEK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	29
Surveyed Households	28
Sampling Fraction	96.6%
Sample Household Members	92
Estimated Household Members	95.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
used 107%	Total Number Harvested 4.1
Hunted 25.0%	Total Number Struck and Lost 1.0
Harvested 7.1%	Total Number Taken 5.2
Received 7.1%	Number Harvested Per Capita 0.04
Gave Away 38%	

SEA UON HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	0	0	0	0	3	4
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	4	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Total Take	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	5.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.1
Struck and Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.0
Total Take	0.1	0.1	0.1	4.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		5.2
Total Take (%)	1.7%	1.7%	i n	81.7%	1.7%	1.7%	1.7%	1.7%	1.7%	i n	i n	1.7%		100%
Cumulative Take	0.1	0.2	0.3	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.1	5.2		
Cum Take R I	1.7%	3.38	5.0%	86.7%	88.3%	90.0%	91.7%	93.3%	95.0%	96.7%	98.3%	100.0%		

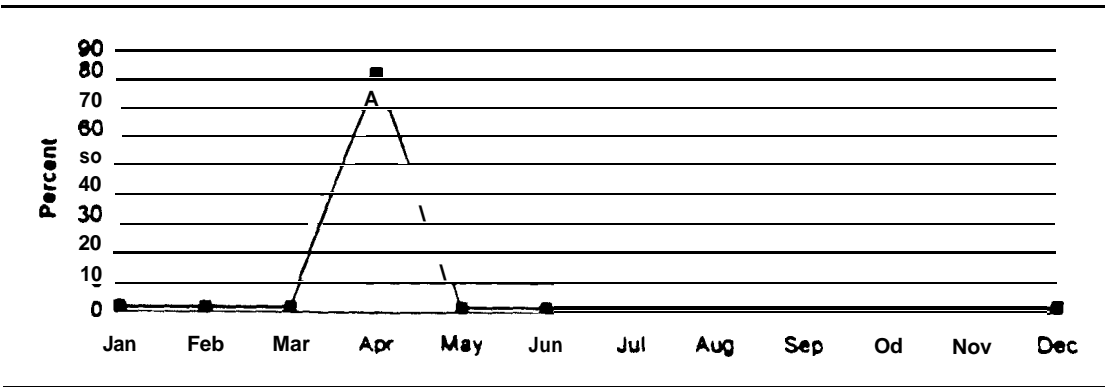
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	25.0%	1.0	25.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	75.0%	3.1	75.0%
Total	4	100.0%	4.1	100.0%

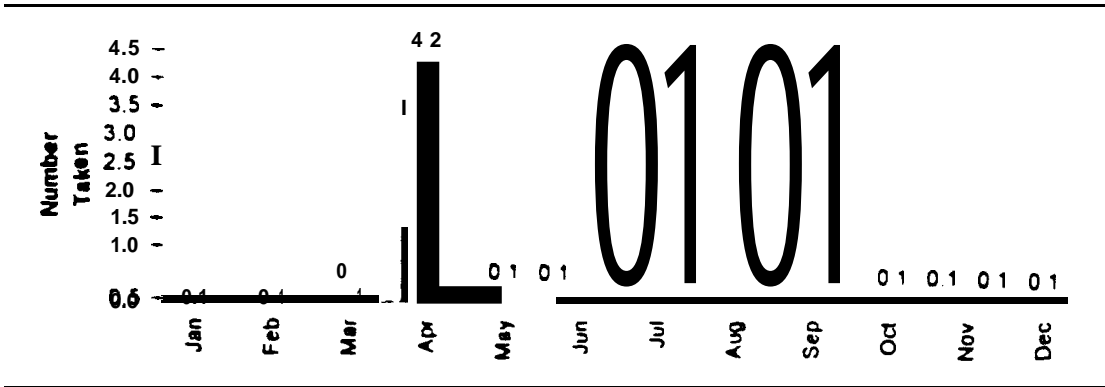
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tattletale IRA Council, 1994.

FIGURE 45. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: TATITLEK, 1993

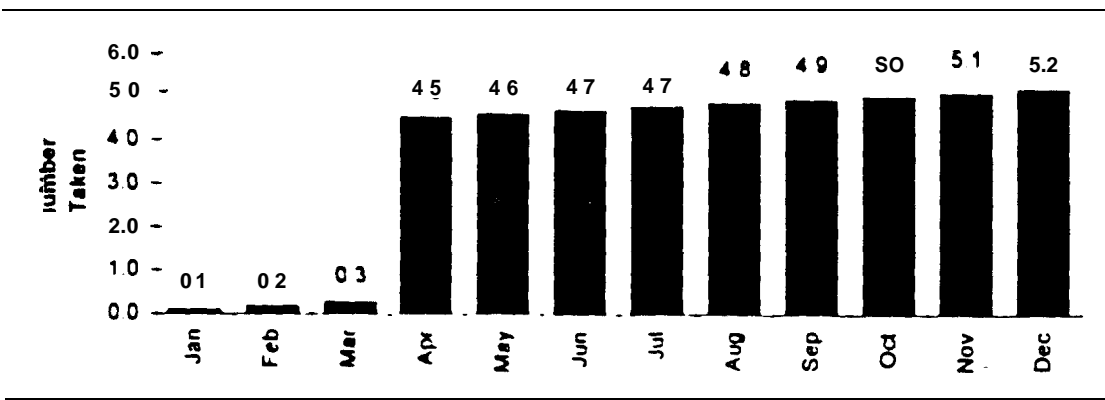
A. Percentage Seasonally Adjusted Take By Month



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tattletale IRA Council, 1994

TABLE 46. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: TATTLEK, 1993

SAMPLING DESIGN CENSUS

Total Native Households	29
Surveyed Households	28
Sampling Fraction	96.6%
Sample Household Members	92
Estimated Household Members	95.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
Used 92.9%	Total Number Harvested 106.7
Hunted 42.9%	Total Number Struck and Lost 14.5
Harvested 32.1%	Total Number Taken 123.2
Received 89.3%	Number Harvested Per Capita 1.14
Gave Away 57.1%	

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):															
Harvest	10	3	4	14	2	2	2	2	5	10	14	37	0	105	
Struck and Lost	0	0	.	0	0	0	0	0	0	0	1	0	9	14	
Total Take	10	3	4	14	2	2	2	2	5	10	15	37	9	119	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	10.4	3.1	4.1	14.5	2.1	2.1	2.1	2.1	5.2	10.4	14.5	38.3	0.0	108.7	
Struck and Lost	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	9.3	14.5	
Total Take	10.4	3.1	8.3	14.5	2.1	2.1	2.1	2.1	5.2	10.4	15.5	38.3	9.3	123.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	10.4	3.1	4.1	14.5	2.1	2.1	2.1	2.1	5.2	10.4	14.5	38.3		108.7	
Struck and Lost	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0		14.5	
Total Take	10.4	3.1	5.2	14.5	2.1	2.1	2.1	2.1	5.2	10.4	17.4	38.3		123.2	
Total Take R I	8.4%	2.5%	12.8%	11.8%	6.8%	1.7%	1.7%	1.7%	4.2%	8.4%	14.1%	31.1%		100%	
Cumulative Take	10.4	13.5	17.6	32.1	34.2	36.3	38.4	40.5	45.7	56.1	70.6	108.9			
cum Take (%)	8.4%	10.9%	23.7%	35.5%	37.1%	38.8%	40.5%	42.2%	46.4%	54.8%	68.9%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

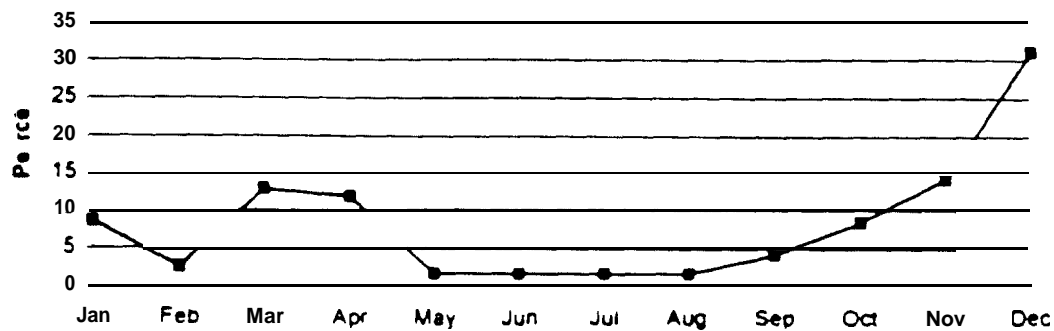
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	21	200%	21.0	200%
Adult Female	3	29%	3.1	29%
Adult Unknown Sex	34	32.4%	35.2	32.4%
Juvenile Male	4	3.8%	4.1	3.8%
Juvenile Female	1	1.0%	1.0	1.0%
Juvenile Unknown Sex	0	0.0%	0.3	1.6%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	34	32.4%	35.2	32.4%
Total	105	1000%	106.7	100.1%

SOURCE

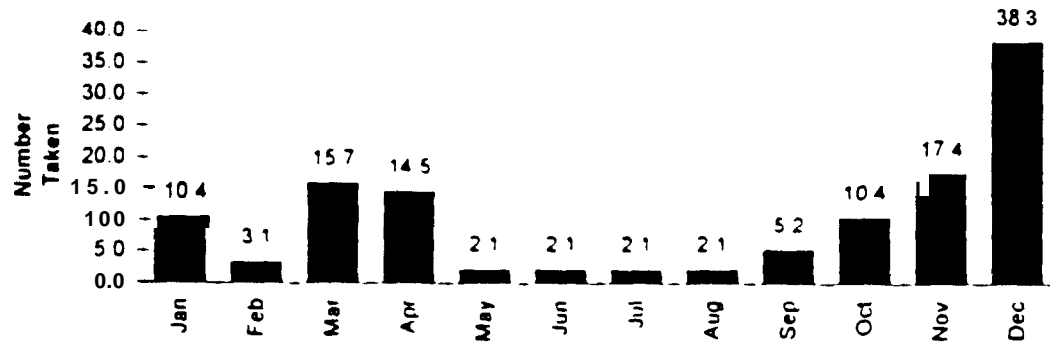
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Tattletale IRA Council: 1994

FIGURE 46. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: TATITLEK, 1993

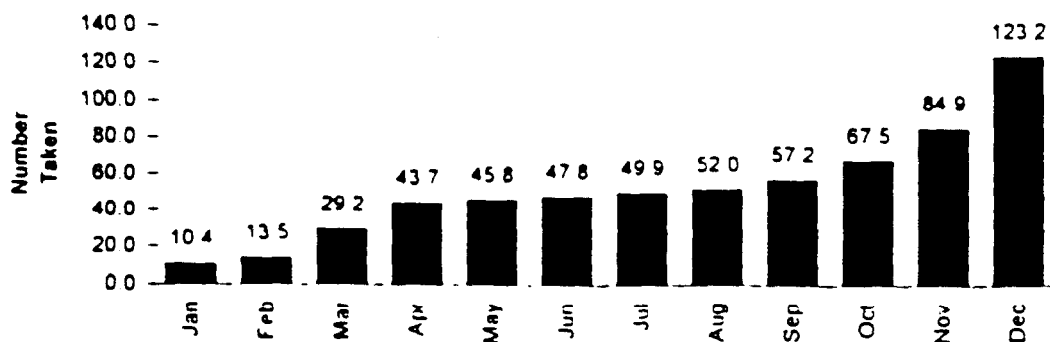
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Wrens and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1994.

TAME 47. **SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: VALDEZ, 1993**

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	6
Surveyed Households	6
Sampling Fraction	100.0%
Sample Household Members	28
Estimated Household Members	28.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households:	Estimated Community Harvest and Take (Expanded):
Used 0.0%	Total Number Harvested 00
Hunted 0.0%	Total Number Struck and Lost 00
Harvested 0.0%	Total Number Taken 00
Received 00%	Number Harvested Per Capita WA
Gave Away 0.0%	

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%

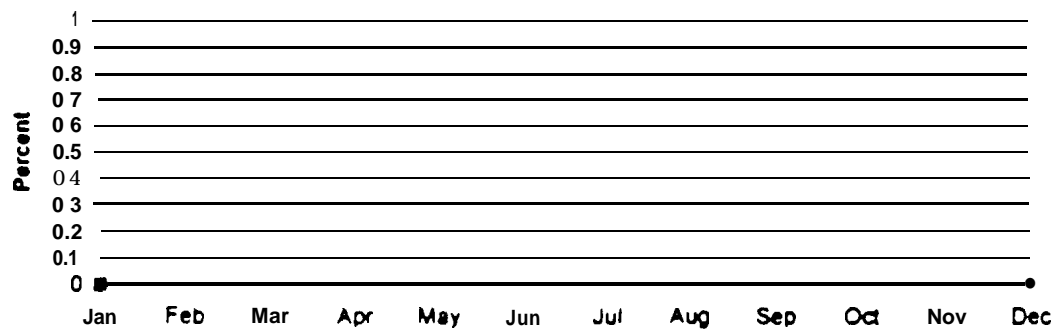
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	00	—
Mull Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
Pup Male	0	—	00	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	00	—
Unknown Sex and Age	0	—	00	—
Total	0	—	0.0	—

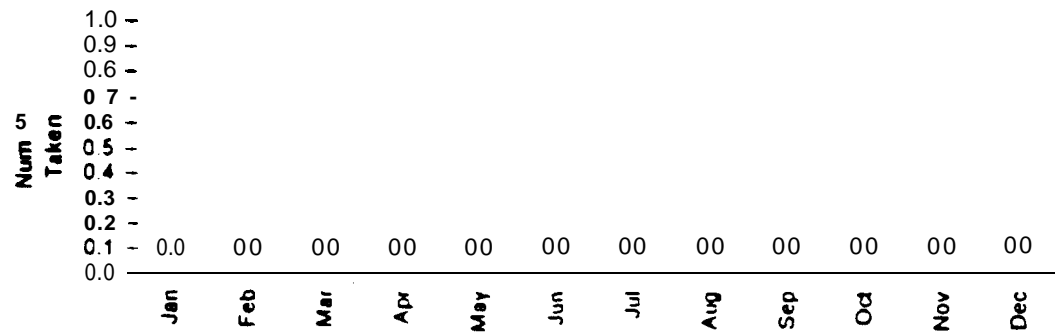
SOURCE Alaska Department of Fish and Game Division of Subsistence Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Valdez Native Association 1994

FIGURE 47. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: VALDEZ, 1993

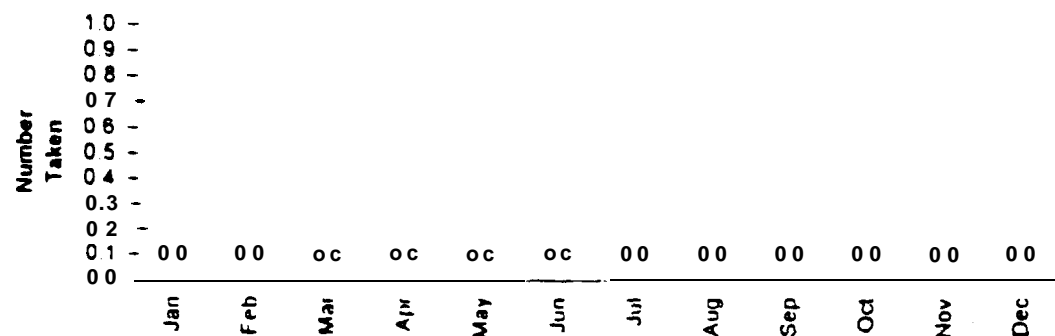
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Valdez Native Association: 1994

TABLE U. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: VALDEZ, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	8
Surveyed Households	8
Sampling Fraction	100.0%
Sample Household Members	28
Estimated Household Members	28.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent of Sample Households	Estimated Community Harvest and Take (Expanded):
Used 66.7%	Total Number Harvested 21.0
Hunted 66.7%	Total Number Struck and Lost 4.0
Harvested 66.7%	Total Number Taken 25.0
Received 33.3%	Number Harvested Per Capita N/A
Gave Away 33.3%	

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	0	0	0	0	0	0	2	3	3	10	21
Struck and Lost	0	0	0	0	0	0	0	0	0	2	0	0	2	4
Total Take	0	0	3	0	0	0	0	0	0	4	3	3	12	25
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.0	10.0	21.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	4.0
Total Take	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.0	3.0	12.0	25.0
ESTIMATE (SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED))														
Harvest	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	3.8	5.7	5.7		21.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0		4.0
Total Take	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	7.8	5.7	5.7		25.0
Total Take (%)	0.08	0.0%	22.9%	0.0%	0.0%	0.0%	0.08	0.0%	0.08	31.3%	22.9%	22.9%		100%
Cumulative Take	0.0	0.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	13.5	19.3	25.0		
cum Take (%)	0.0%	0.0%	22.9%	22.9%	22.9%	22.9%	22.9%	22.9%	22.9%	54.2%	77.1%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

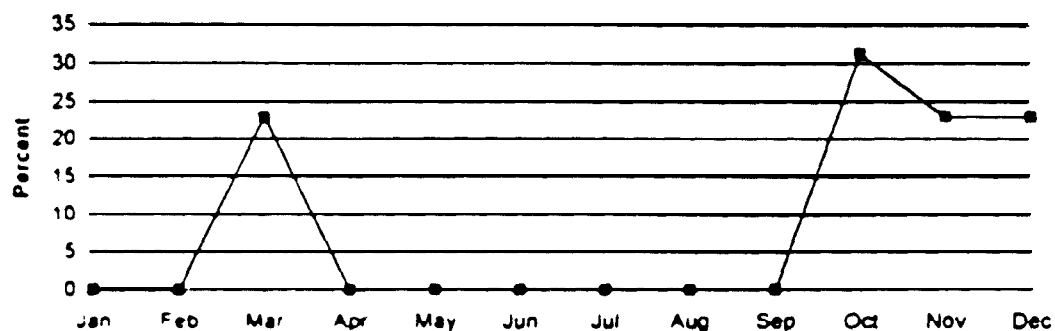
	Reported & h - u - (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	3	14.3%	3.0	14.3%
Adult Female	8	38.1%	8.0	38.1%
Adult Unknown Sex	10	47.6%	10.0	47.6%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	21	100.0%	21.0	100.0%

SOURCE

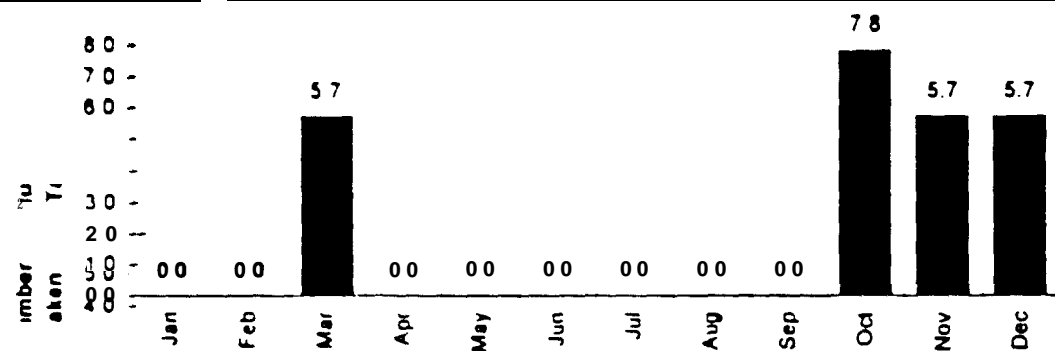
Alaska Department of Fish and Game Division of Subsistence Subsistence Study
and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from
the Valdez Native Association 1994

FIGURE 48. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: VALDEZ, 1993

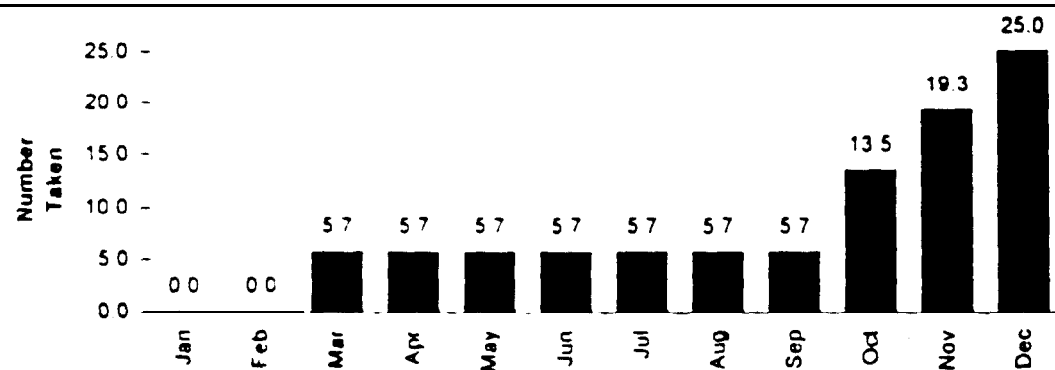
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Valdez Native Association: 1994

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TABLE 49. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 40
 Surveyed Households 36
 Sampling Fraction 90.0 %
 Sample Household Members 134
 Estimated Household Members 148.9

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households
 used 50.0 %
 Hunted 19.4 %
 Harvested 11.1 %
 Received 50.0 %
 Gave Away 36.1 %

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 7.8
 Total Number Struck and Lost 3.3
 Total Number Taken 11.1
 Number Harvested Per Capita N/A

SEA LION HARVEST BY SEASON														Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	C	N	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																
Harvest	2	1	0	2	0	0	0	1	0	1	0	0	0	7		
Struck and Lost	0	2	0	0	0	0	0	0	1	0	0	0	0	3		
Total Take	2	3	0	2	0	0	0	1	1	1	0	0	0	10		
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	22	11	0.0	22	0	0	0.0	1	1	0.0	1	0.0	0.0	7.8		
Struck and Lost	0.0	22	0.0	0.0	0.0	0.0	0.0	0.0	1	1	0.0	0.0	0.0	3.3		
Total Take	22	33	0.0	2.2	0.0	0.0	0.0	1	1	1	1	0.0	0.0	11.1		
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	2.2	1	1	0.0	2.2	0.0	0.0	1	1	0.0	1	0.0	0.0	7.8		
Struck and Lost	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1	1	0.0	0.0	0.0	3.3		
Total Take	22	33	0.0	22	0.0	0.0	0.0	1	1	1	1	0.0	0.0	11.1		
T o w Take (%)	8.0%	30.0%	0.0%	20.0%	0.0%	0.0%	0.0%	10.0%	10.0%	10.0%	0.0%	0.0%		100%		
Cumulative Take	22	5.6	5.6	7.8	7.8	7.8	7.8	8.9	100	11	1	11	1			
cum Take (%)	20.0%	50.0%	50.0%	70.0%	70.0%	70.0%	70.0%	80.0%	90.0%	100.0%	100.0%	100.0%				

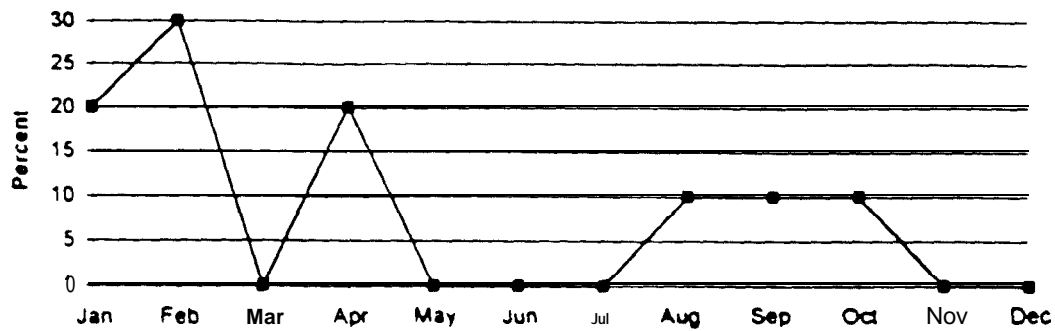
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	28.6%	2.2	28.6%
Adult Female	2	28.6%	2.2	28.6%
Adult Unknown Sex	1	14.3%	1.1	14.3%
Juvenile Male	1	14.3%	1.1	14.3%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	1	14.3%	1.1	14.3%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	7.0	100.0%

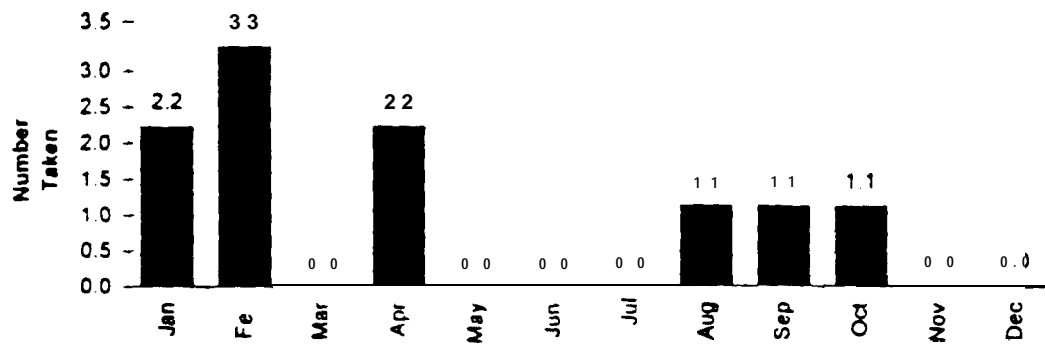
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994.

FIGURE 49. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ANCHORAGE. 1993

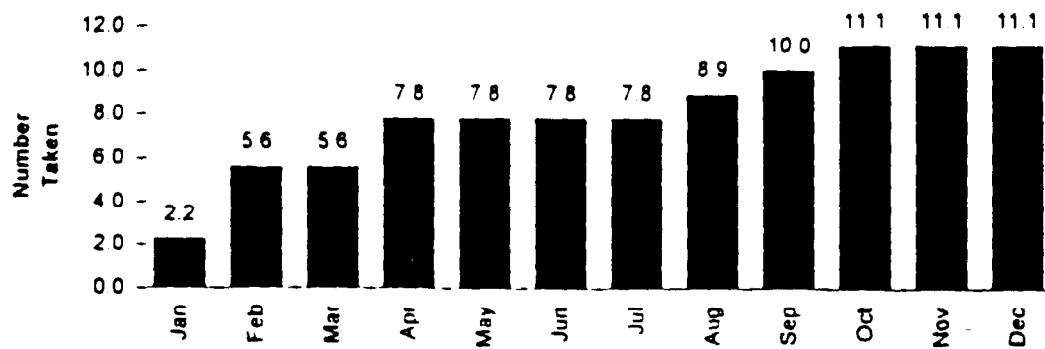
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994.

TABLE 80. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 40
 Surveyed Households 36
 Sampling Fraction 90.0%
 Sample Household Members 134
 Estimated Household Members 148.9

HARBOR SEAL HARVEST AND USE INFORMATION

Percent of Sample Households:
 Used 75.0%
 Hunted 27.0%
 Harvested 19.4%
 Received 75.0%
 Gave Away 55.6%

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 24.4
 Total Number Struck and Lost 5.6
 Total Number Taken 30.0
 Number Harvested Per Capita WA

HARBOR SEAL HARVEST BY SEASON														Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	0	4	6	2	1	2	4	1	1	0	0	0	22	
Struck and Lost	1	0	1	0	0	0	0	0	0	0	0	0	3	5	
Total Take	2	0	5	6	2	1	2	4	1	1	0	0	3	27	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	11	0.0	4.4	6.7	2.2	1.1	2.2	4.4	1.1	1.1	0.0	0.0	0.0	24.4	
Struck and Lost	11	0.0	1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.6	
Total Take	22	0.0	5.6	6.7	2.2	1.1	2.2	4.4	1.1	1.1	0.0	0.0	3.3	30.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.1	0.0	4.4	6.7	2.2	1.1	2.2	4.4	1.1	1.1	0.0	0.0		24.4	
Struck and Lost	2.8	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.6	
Total Take	3.9	0.0	7.2	6.7	2.2	1.1	2.2	4.4	1.1	1.1	0.0	0.0		30.0	
Total Take (%)	13.08	0.08	24.1%	22.2%	7.4%	3.7%	7.4%	14.8%	3.3%	3.3%	0.08	0.08		100%	
Cumulative Take	3.9	3.9	11.1	17.8	20.0	21.1	23.3	27.8	28.9	30.0	30.0	30.0			
Cum. Take (%)	13.0%	13.0%	37.0%	59.3%	66.7%	70.4%	77.8%	92.6%	96.3%	100.0%	100.0%	100.0%			

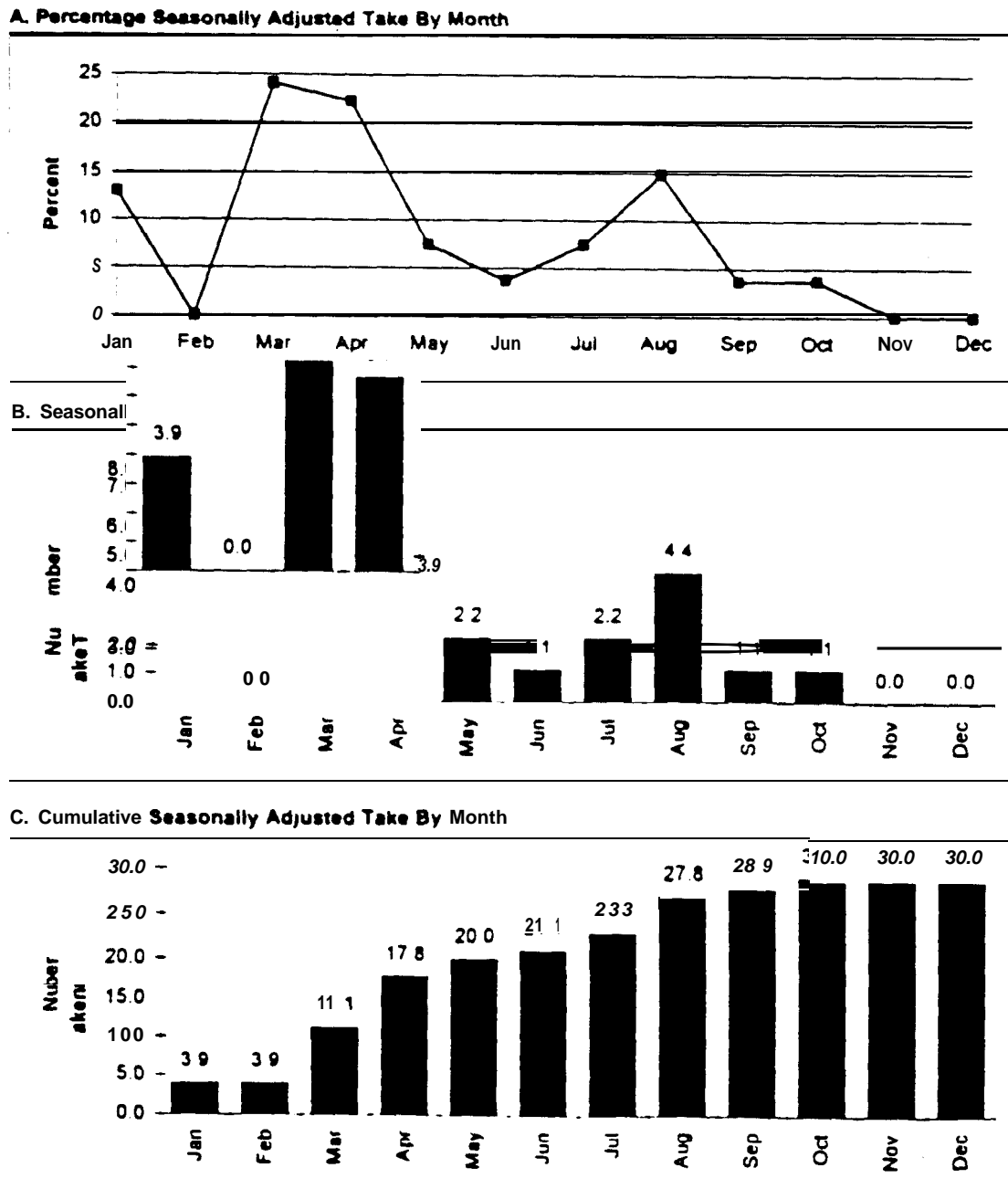
HARBOR SEAL HARVEST BY AGE AND SEX

			Reported		Estimated	
			By Sample	Percent	By Community	Percent
			(Unexpanded)		(Expanded)	
Adult	Male		5	22.7%	5.6	22.7%
Adult	Female		0	0.0%	0.0	0.0%
Juvenile	Male		1	4.5%	1.1	4.5%
Juvenile	Female		1	4.5%	1.1	4.5%
Pup	Male		0	0.0%	0.0	0.0%
Pup	Female		0	0.0%	0.0	0.0%
Pup	Unknown	Sex	0	0.0%	0.0	0.0%
Male	Unknown	Age	0	0.0%	0.0	0.0%
Female	Unknown		0	0.0%	0.0	0.0%
Unknown	Sex and Age		12	54.5%	13.3	54.5%
Total			22	100.0%	24.4	100.0%

SOURCE

Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994.

FIGURE 50. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ANCHORAGE, 1993



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1994

TABLE 51. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HOMER, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	12
Surveyed Households	5
Sampling Fraction	41.7%
Sample Household Members	11
Estimated Household Members	26.4

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST* AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST* AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
Total Take	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST* AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take RI														
Cumulative Take	00	00	00	00	00	00	00	00	00	00	00	00		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

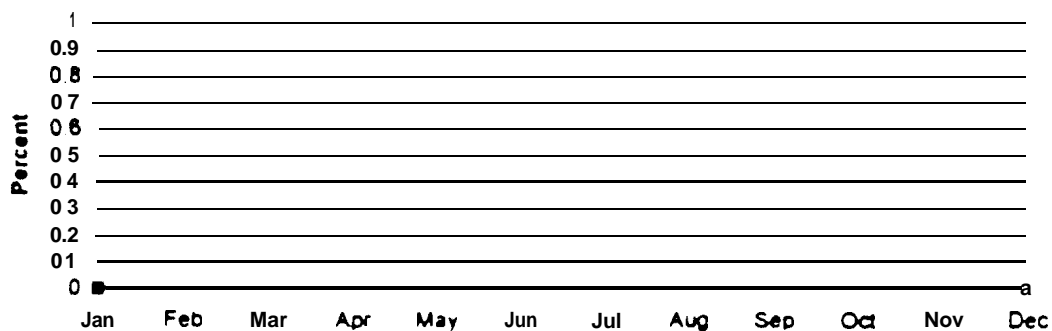
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
PUP Male	0	—	00	—
Pup Female	0	—	00	—
Pup Unknown Sex	0	—	00	—
Male Unknown Age	0	—	00	—
Female Unknown Age	0	—	00	—
Unknown Sex • nd Age	0	—	00	—
Total	0	—	00	—

SOURCE

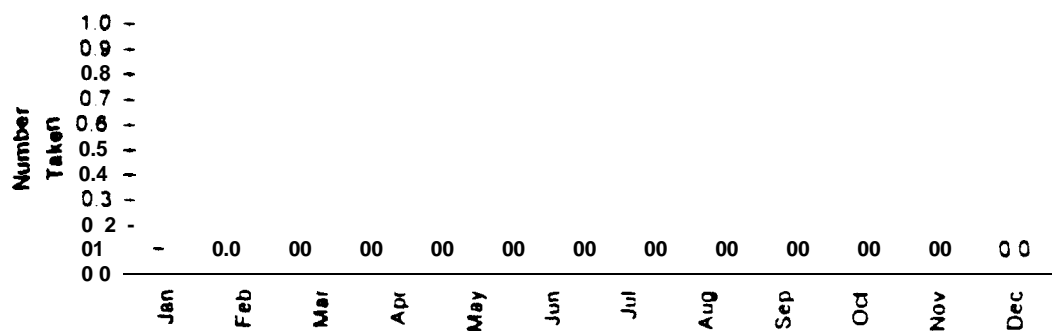
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 1994

FIGURE 51. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HOMER, 1993

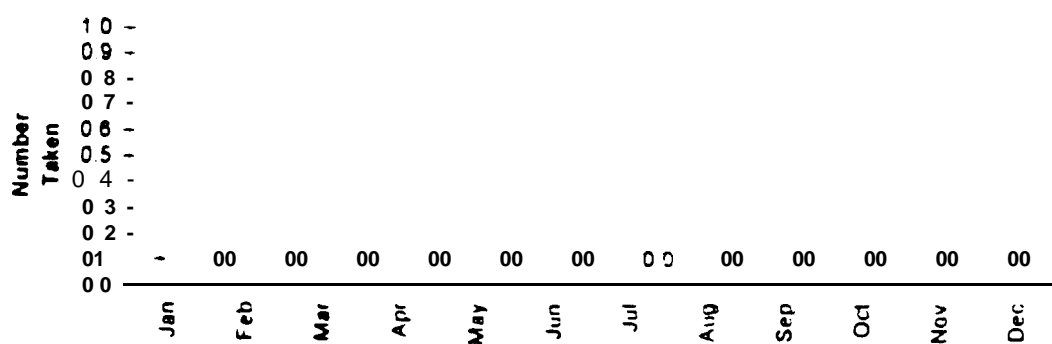
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 1994

TABLE 62. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HOMER, 1993**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households	12
Surveyed Households	5
Sampling Fraction	41.7%
Sample Household Members	11
Estimated Household Members	26.4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households used	Estimated Community Harvest and Take (Expanded):
80.0%	Total Number Harvested 4.6
Hunted 20.0%	Total Number Struck and Lost 0.0
Harvested 20.0%	Total Number Taken 4.8
Received 60.0%	Number Harvested Per Capita N/A
Gave Away 40.0%	

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	1	0	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Total Take (%)	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	2.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Cum Take (%)	0.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

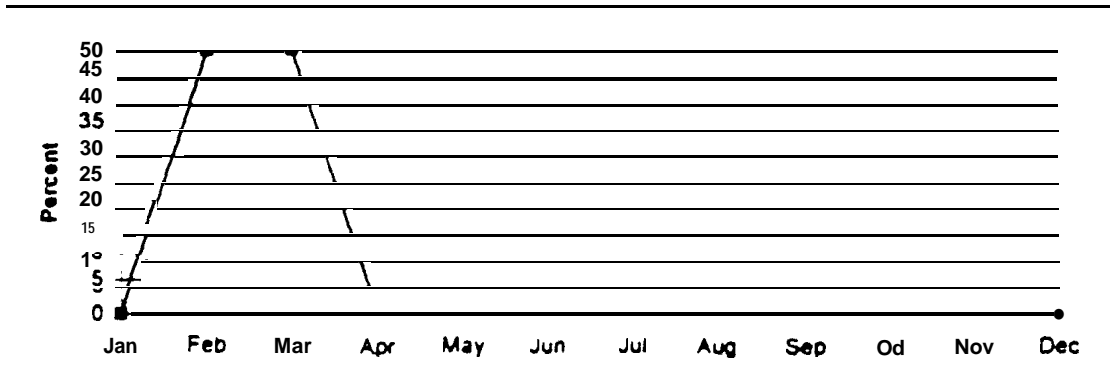
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	50.0%	2.4	50.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	50.0%	2.4	50.0%
Total	2	100.0%	4.8	100.0%

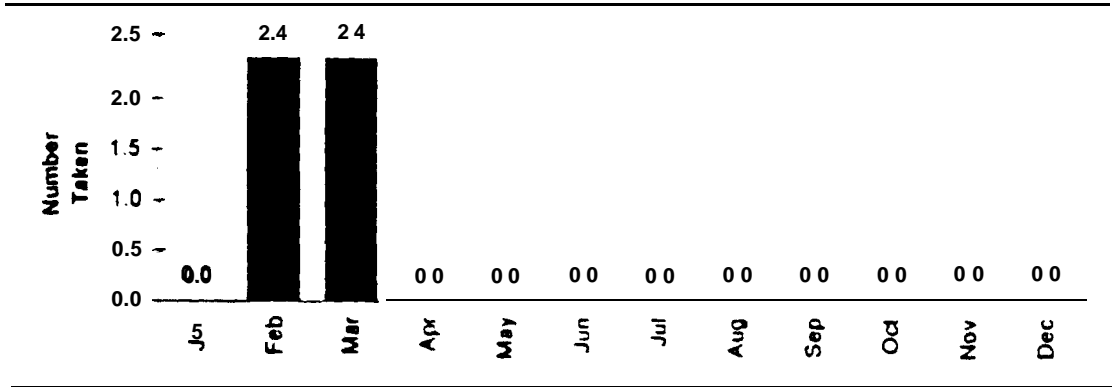
SOURCE Alaska Department of Fish and Game Division of Subsistence Subsistence Study
and Monitor System for Sea Lions and Harbor Seals in Alaska 1994

FIGURE 52. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HOMER, 1993

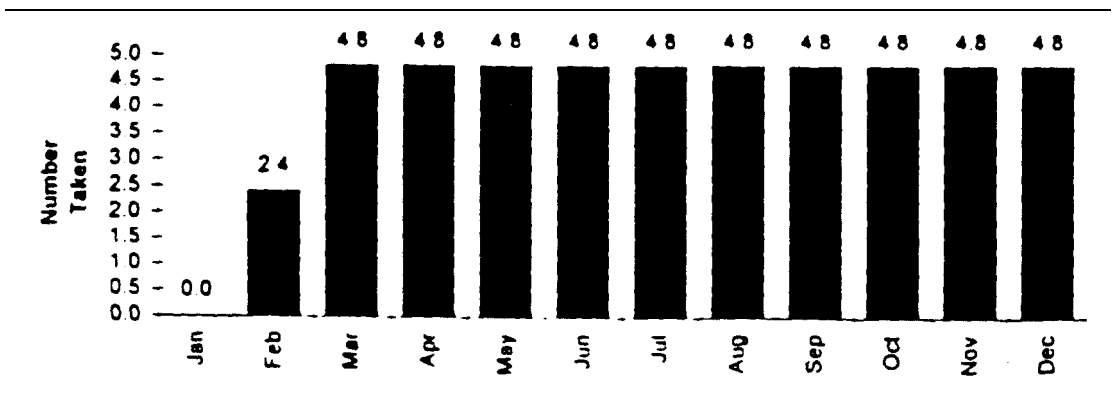
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 1994

TABLE 53. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KENAI, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	2
Surveyed Households	2
Sampling Fraction	100.0%
Sample Household Members	6
Estimated Household Members	6.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households	E	-	Community Harvest and Take (Expanded):
used 00%			Total Number Harvested 00
Hunted 00%			Total Number Struck and Lost 00
Harvested 00%			Total Number Taken 00
Received 00%			Number Harvested Per Capita N/A
Gave Away 00%			

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE 8-f SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

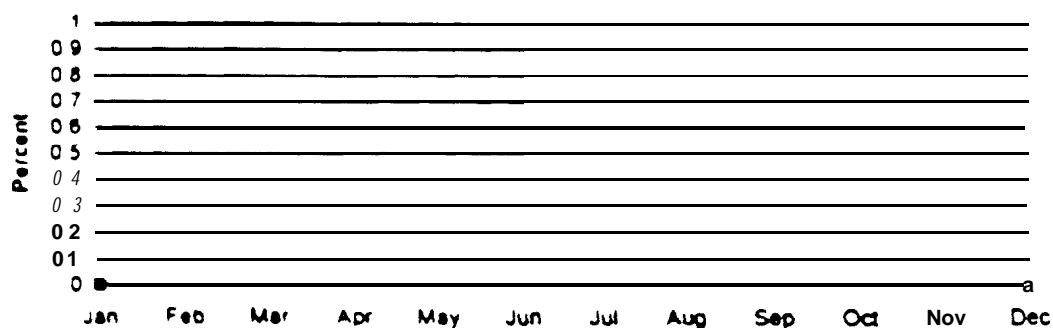
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

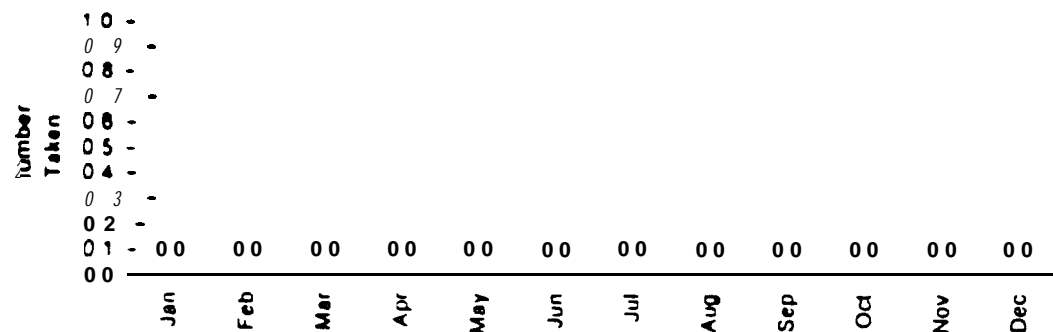
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cooper Inlet Region, Inc., 1994.

FIGURE 53. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KENAI, 1993

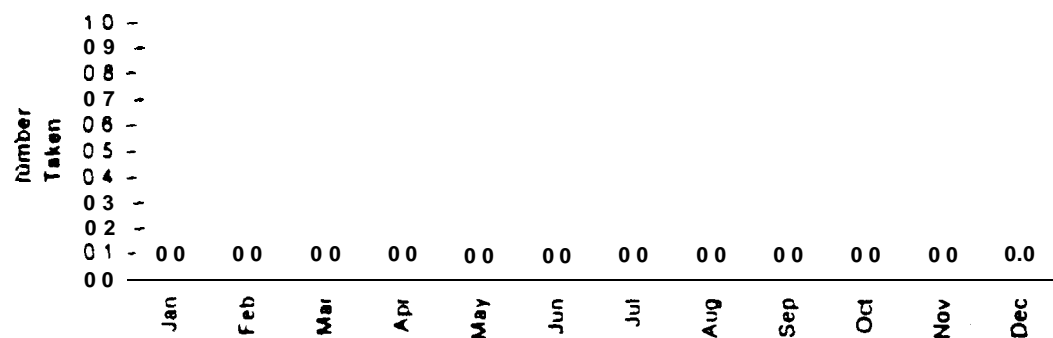
A. Percentage Seasonally Adjusted Take By Month



B Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenai Native Indian Tribe IRA and Cook Inlet Region, Inc., 1994

TABLE 64. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KENAI, 1993

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	2
Surveyed Households	2
Sampling Fraction	100.0%
Sample Household Members	6
Estimated Household Members	60

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Sample Households:

Used	100.0%
Hunted so	0%
Harvested so	0%
Received	100.0%
Gave Away	100%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	20.0
Total Number Struck and Lost	0.0
Total Number Taken	20.0
Number Harvested Per Capita	N/A

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	5	5	0	0	0	0	0	0	10	0	0	0	20
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	5	5	0	0	0	0	0	0	10	0	0	0	20
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	20.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	20.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	20.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	20.0
Total Take (%)	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100%
G u n - Take	0.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	20.0	20.0	20.0		
Cum Take (%)	0.0%	25.0%	50.0%	75.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

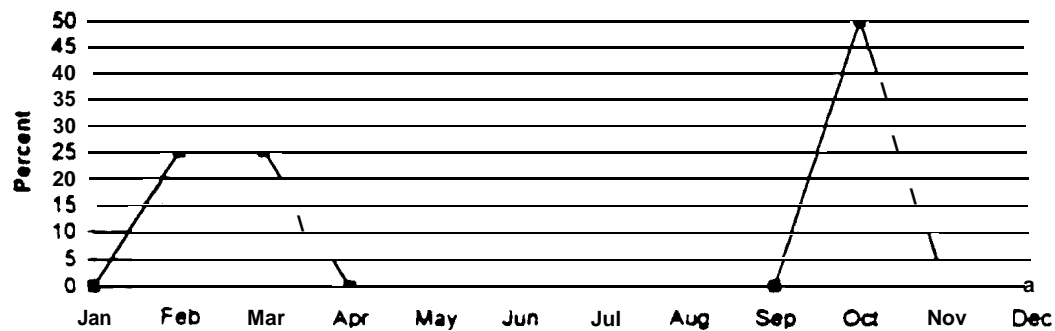
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	20	100.0%	20.0	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	20	100.0%	20.0	100.0%

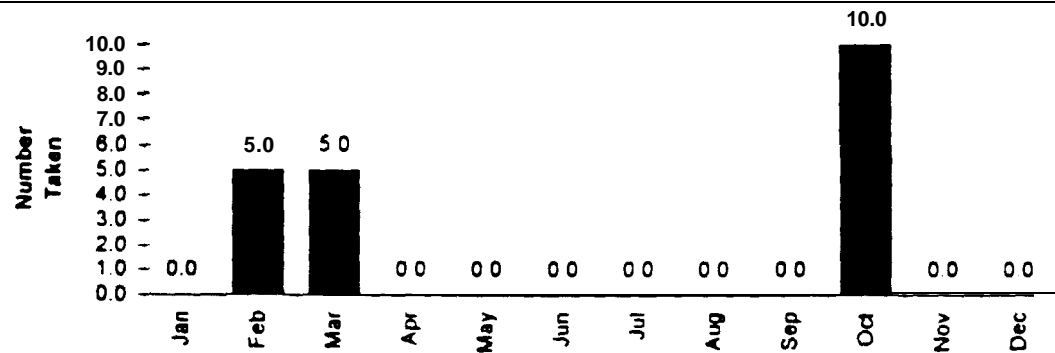
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenai Indian Tribe IRA and Cook Inlet Region, Inc., 1994

FIGURE 54. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KENAI, 1993

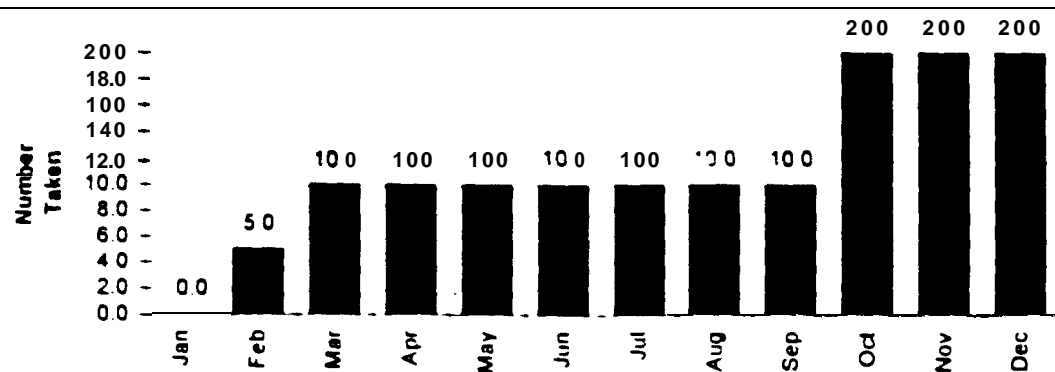
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cook Inlet Region, Inc., 1994.

KODIAK ISLAND

TABLE 88. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: AKHIOK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	21
Surveyed Households	19
Sampling Fraction	90.5%
Sample Household Members	73
Estimated Household Members	80.7

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households		Estimated Community Harvest and Take (Expanded):	
Used	0.0%	Total Number Harvested	0.0
Hunted	5.3%	Total Number Struck and Lost	0.0
Harvested	0.0%	Total Number Taken	0.0
Received	0.0%	Number Harvested Per Capita	0.00
Gave Away	0.0%		

SEA LION HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cumulative Take														
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

SEA LION HARVEST BY AGE AND SEX

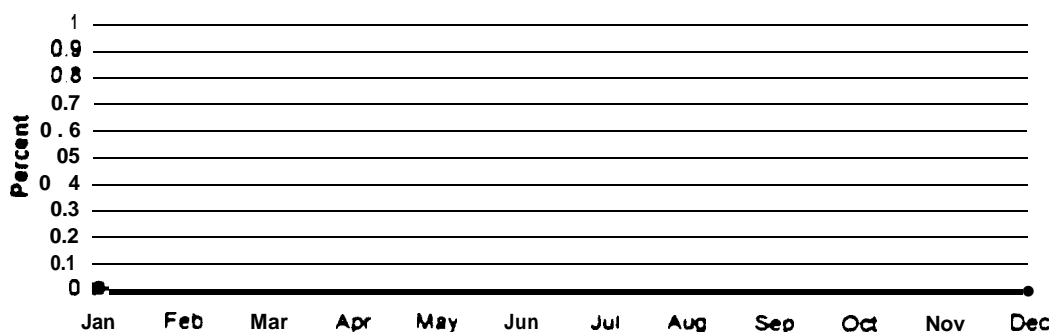
	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE

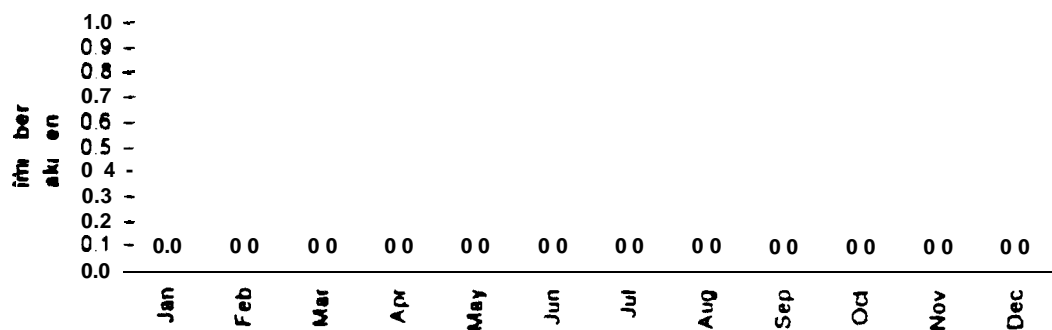
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1994.

FIGURE 55. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: AKHIOK, 1993

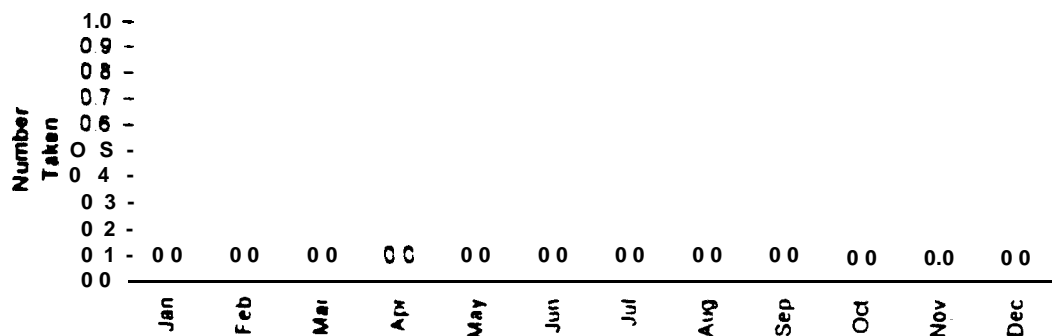
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1994.

TABLE 86. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: AKHIOK, 1993

SAMPLING DESIGN: CENSUS

Tart Native Households	21
Surveyed Households	19
Sampling Fraction	90.5%
Sample Household Members	73
Estimated Household Members	80.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
Used 68.4%	Total Number Harvested 13.3
Hunted 38.8%	Total Number Struck and Lost 0.0
Harvested 28.3%	Total Number Taken 13.3
Received 47.4%	Number Harvested Per Capita 0.16
Gave Away 42.1%	

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST* AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):															
Harvest	0	0	0	0	3	0	0	1	3	4	4	0	0	12	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	1	3	.	4	0	0	12	
ESTIMATED HARVEST* AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	00	00	00	00	00	00	11	33	44	44	0.0	0.0	133	
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0	00	
Total Take	00	00	00	00	00	00	00	11	33	44	44	0.0	0.0	133	
ESTIMATED SEASONALLY ADJUSTED HARVEST* AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	00	00	00	00	00	00	11	33	44	44	0.0		133	
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	0.0		00	
Total Take	00	00	00	00	00	00	00	11	33	44	44	0.0		133	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	25.0%	33.3%	33.3%	0.0%		100%	
Cumulative Take	00	00	00	00	00	00	00	11	44	88	133	133			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	33.3%	66.7%	100.0%	100.0%			

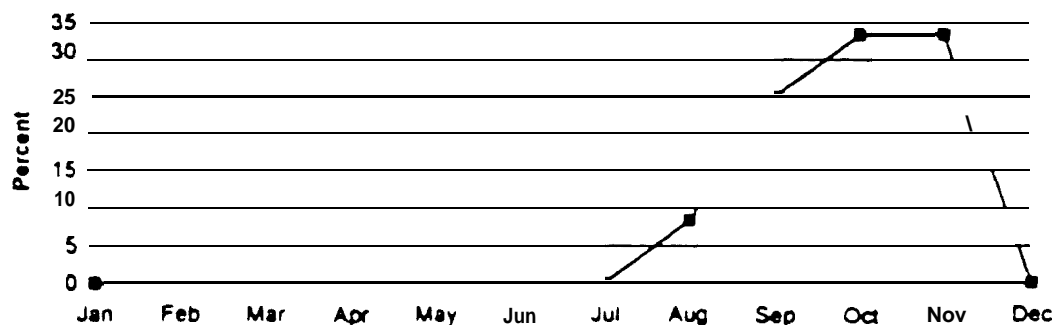
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	6	50.0%	66	50.0%
Adult Female	0	0.0%	00	0.0%
Adult Unknown Sex	6	50.0%	66	50.0%
Juvenile Male	0	0.0%	00	0.0%
Juvenile Female	0	0.0%	00	0.0%
Juvenile Unknown Sex	0	0.0%	00	0.0%
Pup Male	0	0.0%	00	0.0%
Pup Female	0	0.0%	00	0.0%
Pup Unknown Sex	0	0.0%	00	0.0%
Male Unknown Age	0	0.0%	00	0.0%
Female Unknown Age	0	0.0%	00	0.0%
Unknown Sex and Age	0	0.0%	00	0.0%
Total	12	100.0%	133	100.0%

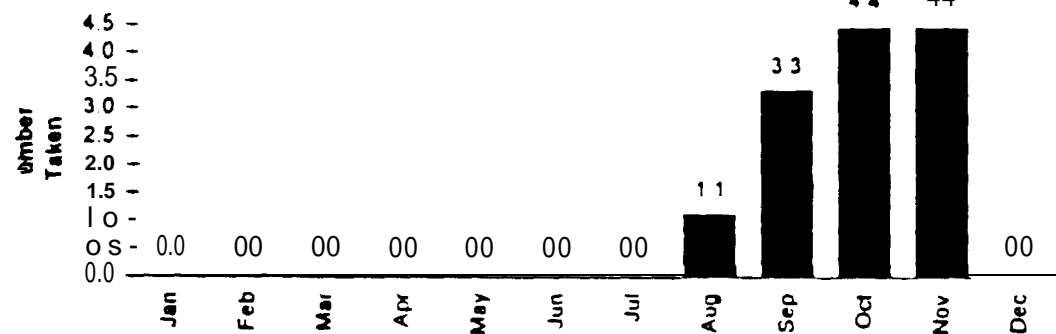
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1994.

FIGURE 56. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: AKHIOK, 1993

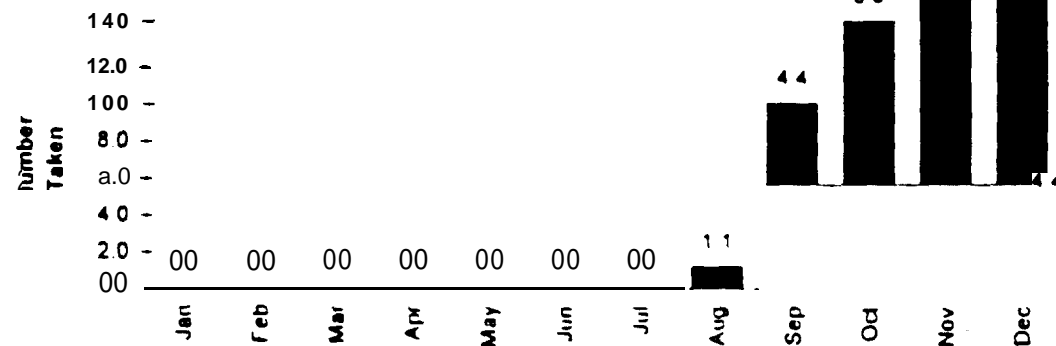
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1994.

TABLE 67. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KARLUK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	15
Surveyed Households	12
Sampling Fraction	800%
Sample Household Members	49
Estimated Household Members	613

SEA LION HARVEST AND USE INFORMATION*Percent Of Native Households.*

Used	0 0 %
Hunted	0 0 %
Harvested	0.0%
Received	0.0%
Gave Away	0 0%

Estimated Community Harvest and Take (Expanded).

Total Number Harvested	0 0
Total Number Struck and Lost	0 0
Total Number Taken	0 0
Number Harvested Per Capita	0 00

SEA LION HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)															
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

SEA LION HARVEST BY AGE AND SEX

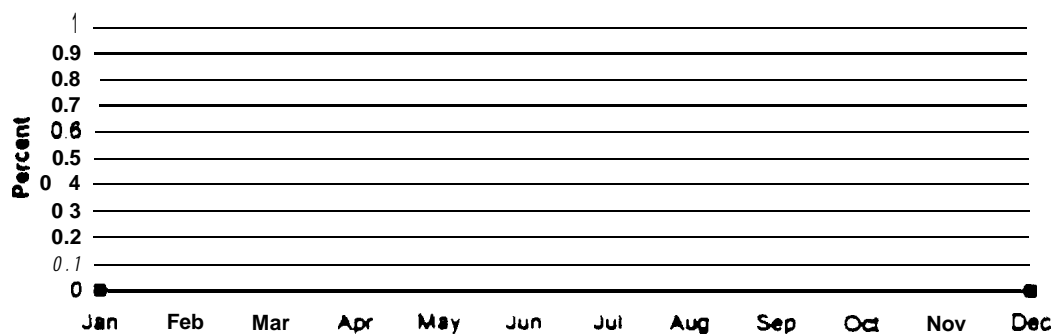
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0 0	—
Adult Female	0	—	0 0	—
Adult Unknown Sex	0	—	0 0	—
Juvenile Male	0	—	0 0	—
Juvenile Female	0	—	0 0	—
Juvenile Unknown Sex	0	—	0 0	—
Pup Male	0	—	0 0	—
Pup Female	0	—	0 0	—
Pup Unknown Sex	0	—	0 0	—
Male Unknown Age	0	—	0 0	—
Female Unknown Age	0	—	0 0	—
Unknown Sex and Age	0	—	0 0	—
Total	0	—	0 0	—

SOURCE

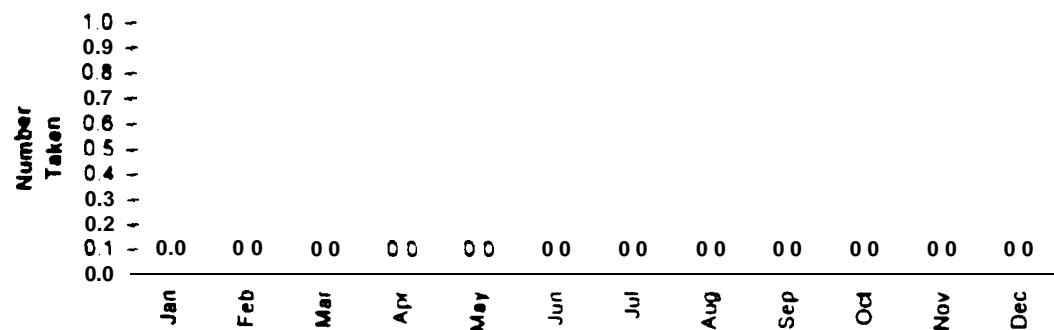
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Karluk IRA Council: 1994

FIGURE 67. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KARLUK, 1993

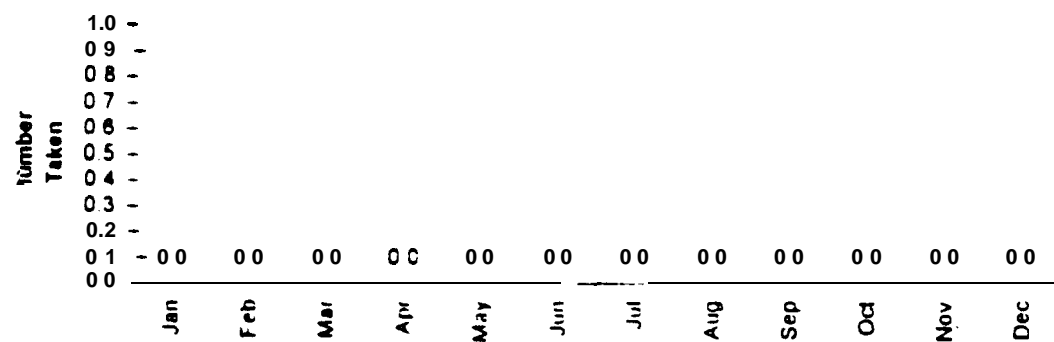
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1994.

TABLE 53. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KARLUK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	15
Surveyed Households	12
Sampling Fraction	800%
Sample Household Members	49
Estimated Household Members	613

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 41.7%	Total Number Harvested 10.0
Hunted 41.7%	Total Number Struck and Lost 1.3
Harvested 41.7%	Total Number Taken 11.3
Received 16.7%	Number Harvested Per Capita 0.16
Gave Away 41.7%	

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	2	2	.	0	0	8
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	0	0	0	0	0	0	0	3	2	4	0	0	e
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	5.0	0.0	0.0	10.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.5	5.0	0.0	0.0	11.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	5.0	0.0		10.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0		1.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.5	5.0	0.0		11.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	22.2%	44.4%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.3	11.3	11.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	55.6%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

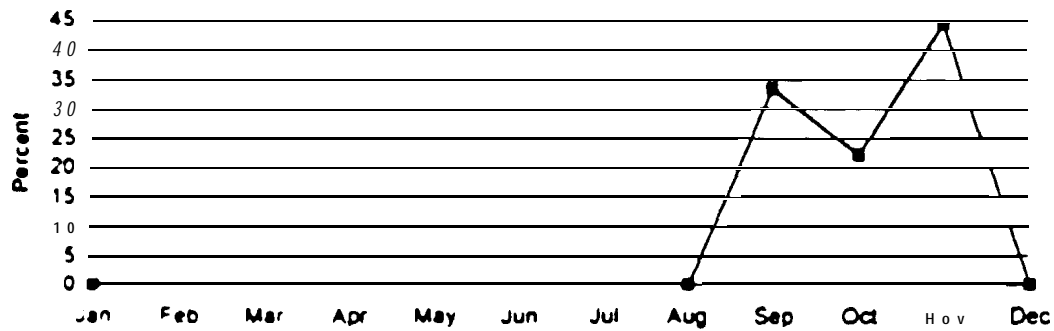
	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	2	250%	2.5	250%
Adult Female	1	125%	1.3	125%
Adult Unknown Sex	3	37.5%	3.8	37.5%
Juvenile Male	1	12.5%	1.3	12.5%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	12.5%	1.3	12.5%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100.0%	10.0	100.0%

SOURCE

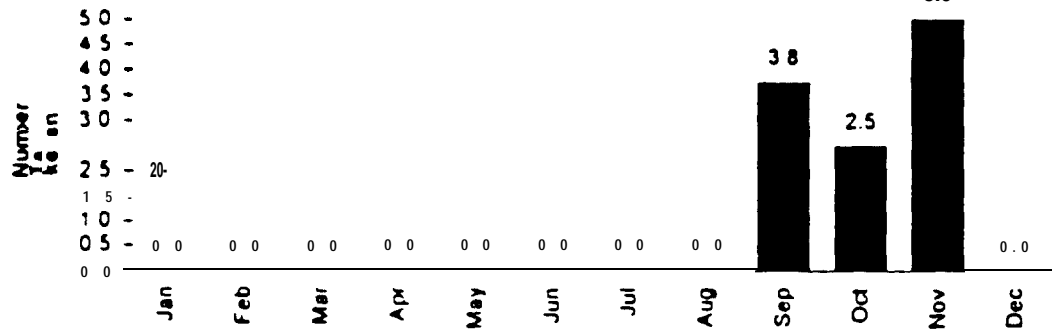
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1994.

FIGURE 58. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KARLUK, 1993

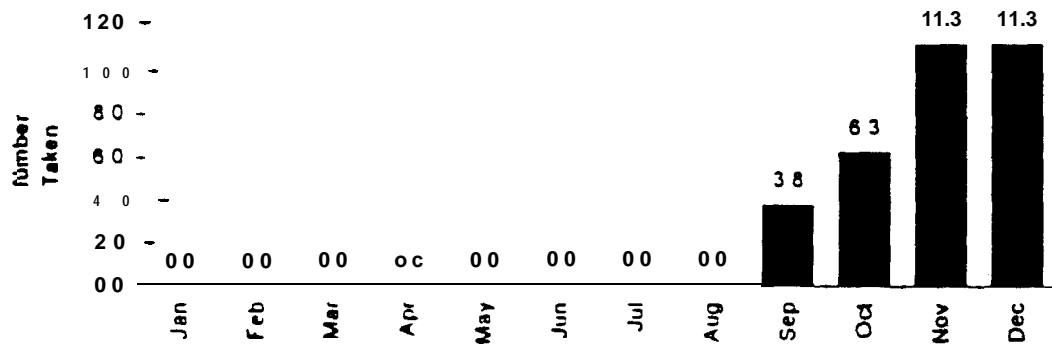
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1994.

TABLE 59. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KODIAK CITY, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	10	393	403
Surveyed Households	10	31	41
Sampling Fraction	100.0%	7.9%	10.2%
Sample Household Members	40	88	128
Estimated Household Members	400	1115.6	11556

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 97 %	Total Number Harvested 0.0
Hunted 31 %	Total Number Struck and Lost 12.7
Harvested 0.0 %	Total Number Taken 12.7
Received 0.7 %	Number Harvested Per Capita 0.00
Gave Away 0.0 %	

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	0	0	0	0	0	0	0	1	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	12.7
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	12.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	12.7
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	12.7
Total Take R I	0.08	0.0%	0.0%	0.0%	0.0%	0.0%	0.08	0.0%	100.0%	a m	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	12.7	12.7	12.7	12.7	12.7
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.08	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

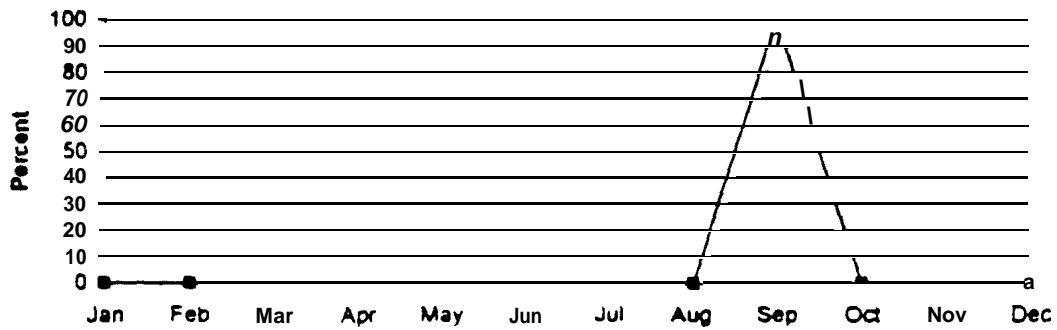
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	—
Adult Female	0		0.0	—
Adult Unknown Sex	0		0.0	—
Juvenile Male	0		0.0	—
Juvenile Female	0		0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0		0.0	—
Pup Female	0		0.0	—
Pup Unknown sex	0		0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

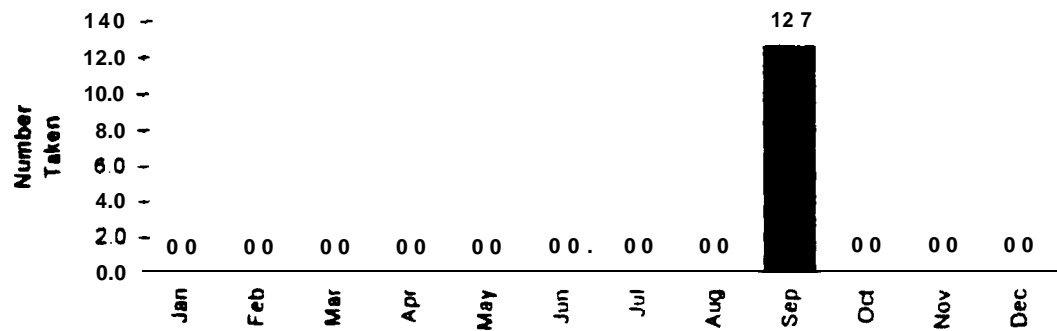
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1994.

FIGURE 99. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KODIAK Cm, 1993

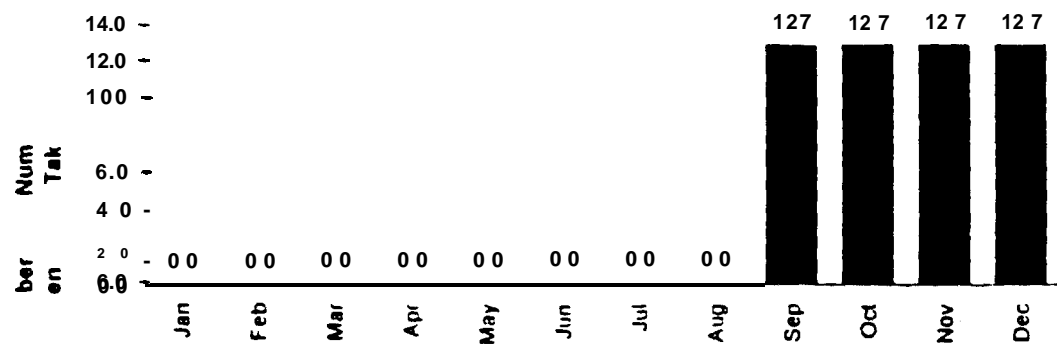
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Kodiak Tribal Council and Kodiak Area Native Association. 1994.

TAME 60. HARBOR SEAL (*Phoca vitulina*) HARVEST MO TAKE ESTIMATES: KODIAK cm. 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	10	393	403
Surveyed Households	10	31	41
Sampling Fraction	100 0%	7 9%	10 2%
Sample Household Members	40	88	128
Estimated Household Members	40 0	1115 6	1155 6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	
Used	28 4%
Hunted	1 2%
Harvested	0 2%
Received	2 8 2%
Gave Away	3 4%

Estimated Community Harvest and Take (Expanded)	
Total Number Harvested	6 0
Total Number Struck and Lost	1 0
Total Number Taken	7 0
Number Harvested Per Capita	0 01

HARBOR SEAL HARVEST BY SEASON												Unknown			Month	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	c	n	Nov Dec					
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																
Harvest	2	0	0	0	0	1	0	0	0	3	0	0	0	6		
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1		
Total Take	2	0	0	0	0	1	0	0	1	3	0	0	0	7		
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	6.0		
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0		
Total Take	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	7.0		
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0		6.0		
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0		1.0		
Total Take	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	3.0	0.0	0.0		7.0		
Total Take (%)	28.6%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	14.3%	42.9%	0.0%	0.0%		100%		
Cumulative Take	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	7.0	7.0	7.0				
cum Take (%)	28.6%	28.6%	28.6%	28.6%	28.6%	42.9%	42.9%	42.9%	57.1%	100.0%	100.0%	100.0%				

HARBOR SEAL HARVEST BY AGE AND SEX

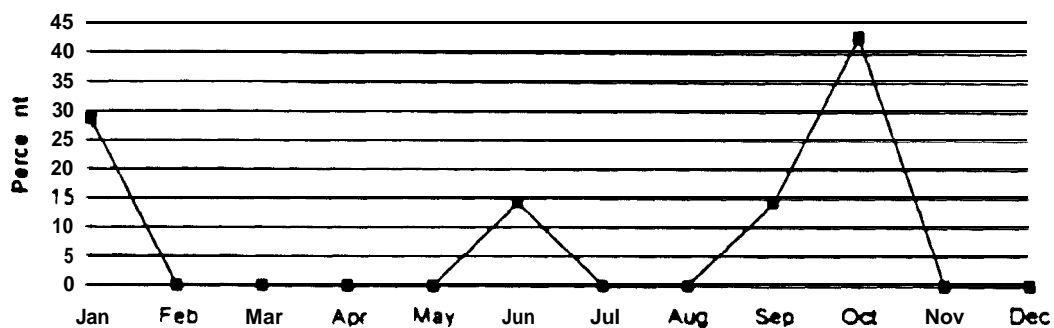
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	3	500%	3 0	500%
Adult Female	0	00%	0 0	00%
Mull Unknown Sex	0	00%	0 0	00%
Juwntk Male	0	00%	0 0	00%
Juvenile Female	0	00%	0 0	00%
Juvenile Unknown Sex	2	33 3%	2.0	33 3%
Pup Male	0	00%	0 0	00%
Pup Female	0	00%	0 0	00%
Pup Unknown sex	1	16 7 %	1 0	16 7%
Male Unknown Age	0	00%	0 0	0 0 %
Female Unknown Age	0	00%	0 0	0 0 %
Unknown Sex and Age	0	00%	0 0	0 0 %
Total	6	1000%	6.0	100 0%

SOURCE

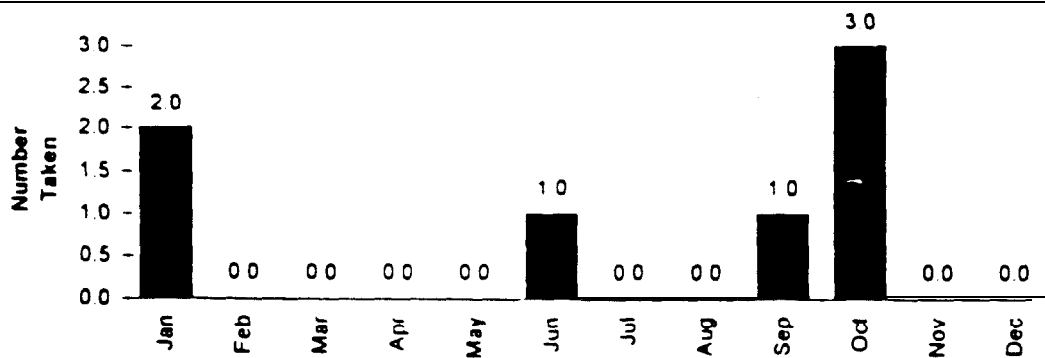
Alaska Department of Fish and Game Division of Subistence. Subistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Kodiak Tribal Council and Kodiak Area Native Association. 1984

FIGURE 60. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KODIAK CITY, 1993

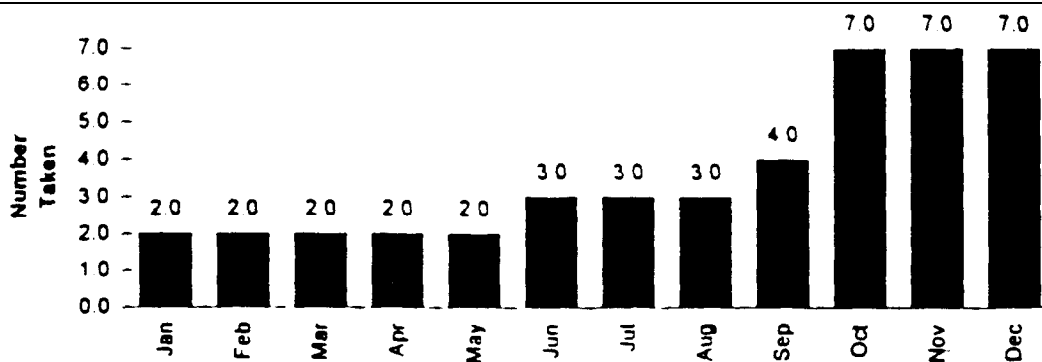
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Kodiak Tribal Council and Kodiak Area Native Association. 1994.

TABLE 61. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: LARSEN MY. 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	43
Surveyed Households	39
Sampling Fraction	90.7%
Sample Household Members	111
Estimated Household Members	122.4

SEA LION HARVEST AND USE INFORMATION

Percent of Native Households	Estimated Community Harvest and Take (Expanded):
used 0.0%	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.0%	Number Harvested Per Capita 0.00
Gave Away 0.0%	

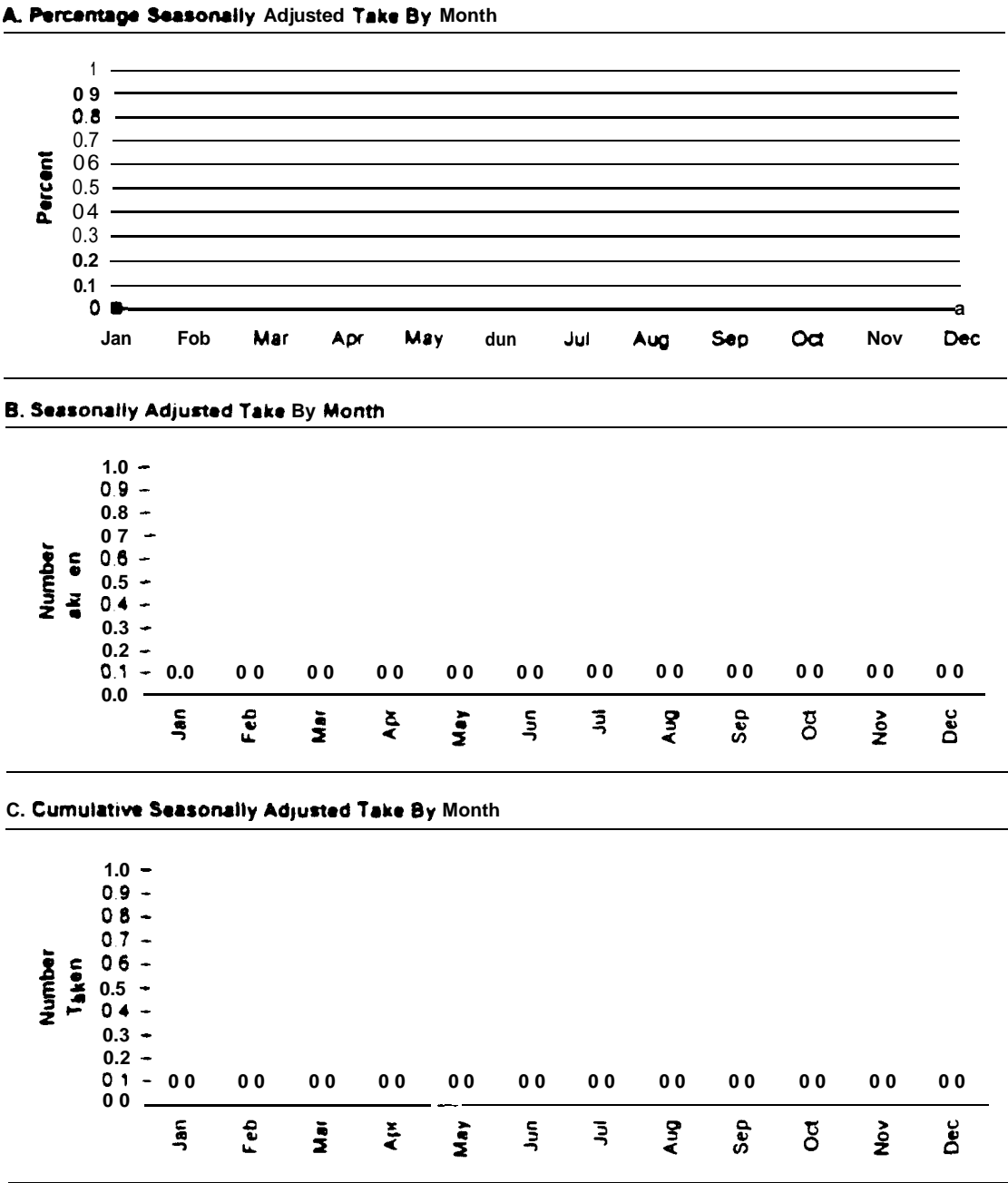
SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	4	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1994

FIGURE 61. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: LARSEN BAY, 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1994.

TABLE 62. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: LARSEN BAY, 1993

SAMPLING DESIGN CENSUS

Total Native Households	43
Surveyed Households	39
Sampling Fraction	90.7%
Sample Household Members	111
Estimated Household Members	122.4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households		Estimated Community Harvest and Take (Expanded)	
Used	33.3%	Total Number Harvested	7.7
Hunted	17.9%	Total Number Struck and Lost	5.5
Harvested	12.8%	Total Number Taken	13.2
Received	23.1%	Number Harvested Per Capita	0.06
Gave Away	25.6%		

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	1	2	2	2	0	7
Struck and Lost	0	5	0	0	0	0	0	0	0	1	0	1	3	5
Total Take	0	0	0	0	0	0	0	0	1	3	2	3	3	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	0.0	7.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	3.3	5.5
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	2.2	3.3	3.3	13.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2		7.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8		5.5
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.0	2.2	5.0		13.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	37.5%	16.7%	37.5%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.1	8.3	13.2		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	45.8%	62.5%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

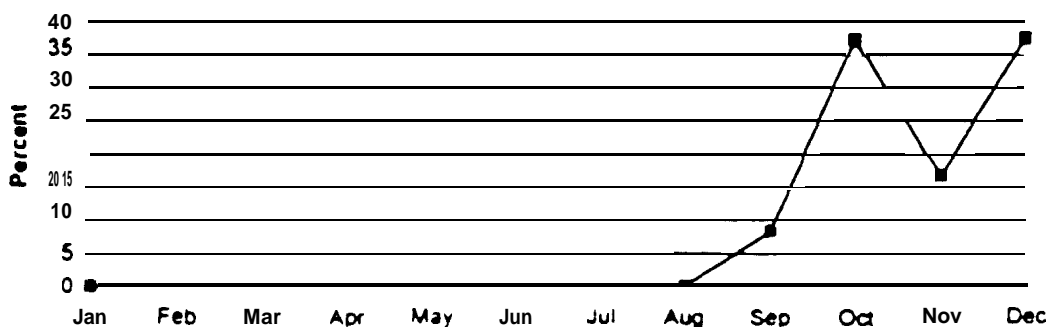
	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent
Adult Male	4	57.1%	4.4	57.1%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	42.9%	3.3	42.9%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	7.7	100.0%

SOURCE

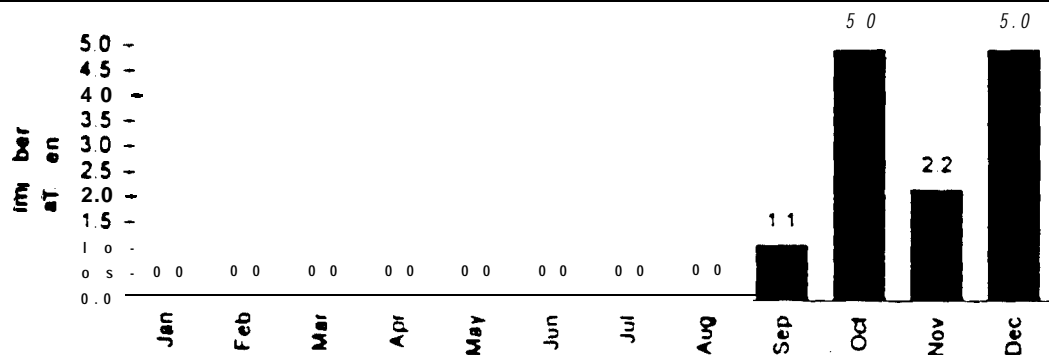
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1994.

FIGURE 62 HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: LARSEN BAY, 1993

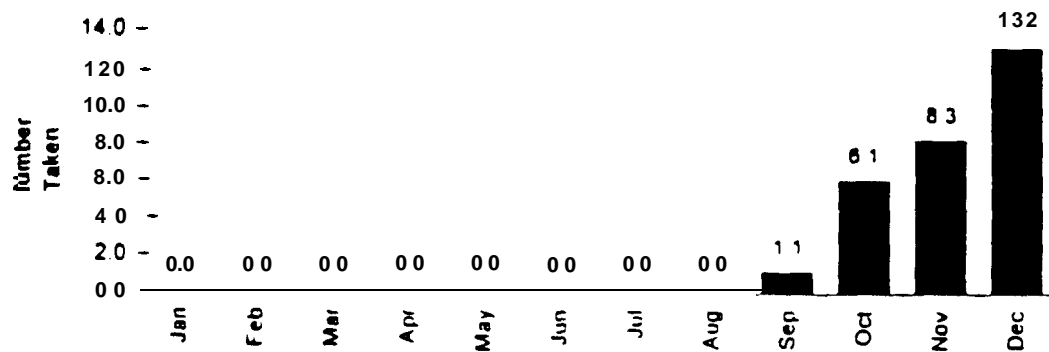
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1994.

TABLE 63. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	28	53	81
Surveyed Households	27	32	59
Sampling Fraction	96.4%	60.4%	72.8%
Sample Household Members	110	95	205
Estimated Household Members	114.1	157.3	271.4

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):
Used 93.3%	Total Number Harvested 32.1
Hunted 37.6%	Total Number Struck and Lost 1.0
Harvested 27.4%	Total Number Taken 33.2
Received 66.2%	Number Harvested Per Capita 0.12
Gave Away 38.1%	

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Months	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	2	1	2	1	0	0	5	3	9	3	0	28
Struck and Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	2	2	1	2	1	0	0	5	4	9	3	0	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.7	2.1	1.0	2.7	1.0	0.0	0.0	5.8	3.1	10.6	3.1	0.0	32.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
Total Take	0.0	2.7	2.1	1.0	2.7	1.0	0.0	0.0	5.8	4.1	10.6	3.1	0.0	33.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.7	2.1	1.0	2.7	1.0	0.0	0.0	5.8	3.1	10.6	3.1		32.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0		1.0
Total Take	0.0	2.7	2.1	1.0	2.7	1.0	0.0	0.0	5.8	4.1	10.6	3.1		33.2
Total Take (%)	0.08	8.1%	6.38	3.1%	8.1%	3.1%	0.0%	0.0%	17.5%	12.5%	31.9%	9.4%		100%
Cumulative Take	0.0	2.7	4.8	5.8	8.5	9.5	9.5	9.5	15.3	19.5	30.1	33.2		
Cum Take (%)	0.08	8.1%	14.8	17.5%	25.6%	28.7%	28.7%	28.7%	46.28	58.7%	90.6%	100.0%		

SEA LION HARVEST BY AGE AND SEX

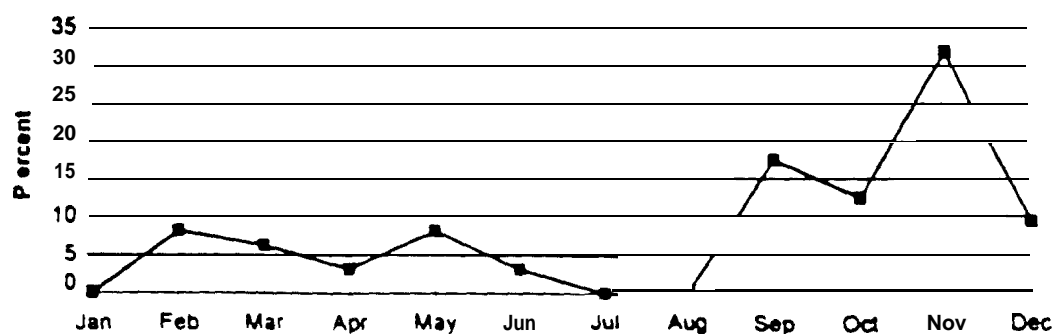
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	11	39.3%	126	39.4%
Adult Female	4	21.4%	62	19.4%
Adult Unknown Sex	1	3.6%	10	3.2%
Juvenile Male	10	35.7%	122	38.1%
Juvenile Female	0	0.0%	0	0.0%
Juvenile Unknown Sex	0	0.0%	0	0.0%
Pup Male	0	0.0%	0	0.0%
Pup Female	0	0.0%	0	0.0%
Pup Unknown Sex	0	0.0%	0	0.0%
Male Unknown Age	0	0.0%	0	0.0%
Female Unknown Age	0	0.0%	0	0.0%
Unknown Sex and Age	0	0.0%	0	0.0%
Total	28	100.0%	321	100.0%

SOURCE

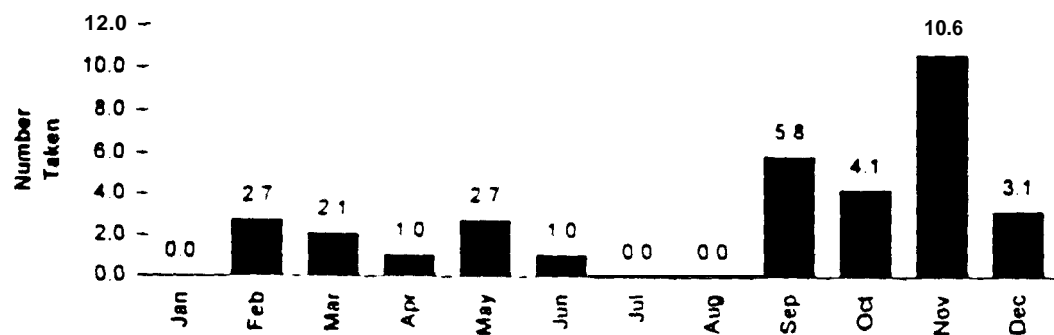
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1994.

FIGURE 63. SEA UON (*Eumetopias jubatus*) TAKE ESTIMATES: OUJ HARBOR. 1993

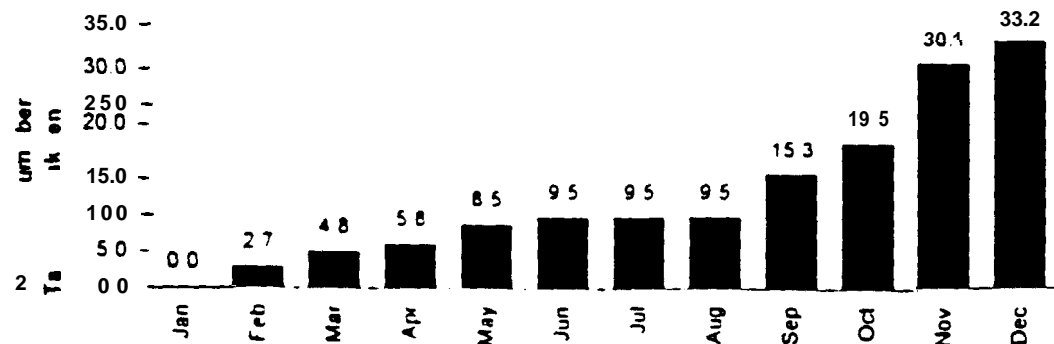
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Uons and Harbor Seals in Alaska, with assistance from the City of Ouj Harbor and Ouj Harbor Tribal Council, 1994

TABLE 64. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	26	53	81
Surveyed Households	27	32	59
Sampling Fraction	96.4 %	60.4 %	72.8 %
Sample Household Members	110	95	205
Estimated Household Members	114.1	157.3	271.4

HARBOR SEAL HARVEST AND USE INFORMATION

Percent of Native Households

Used 94.6 %
 Hunted 4.4 3%
 Harvested 4.0 4%
 Received 09.5%
 Gave Away 47.3%

Estimated Community Harvest and Take (Expanded)

Total Number Harvested 67.6
 Total Number Struck and Lost 2.7
 Total Number Taken 70.3
 Number Harvested Per Capita 0.25

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	4	5	5	4	2	3	6	5	14	5	0	0	58	
Struck and Lost	0	0	0	0	0	0	0	0	0	1	0	1	0	2	
Total Take	1	4	5	5	4	2	3	6	5	15	5	1	0	60	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	17	60	56	52	41	21	37	62	58	17	0	56	4.1	61.6	
Struck and Lost	00	00	00	00	0.0	0.0	0.0	00	00	1.7	00	1.0	0.0	2.7	
Total Take	17	60	56	52	41	21	37	62	58	18	7	5.8	5.2	70.3	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.7	60	5.8	5.2	4.1	2.1	3.7	62	5.8	170	5.8	4.1		67.6	
Struck and Lost	00	00	00	00	0.0	0.0	0.0	00	00	1.7	00	1.0		2.7	
Total Take	1.7	60	5.8	5.2	4.1	2.1	3.7	62	5.8	18	7	5.8	5.2	70.3	
Total Take (%)	2.4%	8.5%	6.3%	7.4%	5.9%	3.0%	3.3%	8.9%	8.3%	26.5%	63%	7.4%		100%	
Cumulative Take	1.7	7.7	13.5	18	22.8	24.9	28.6	34.8	40.6	59.3	65.1	70.3			
Cumulative Take (%)	2.4%	10.9%	19	28	32.4%	35.4%	40.7%	49.6%	57.8%	84	92.6%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

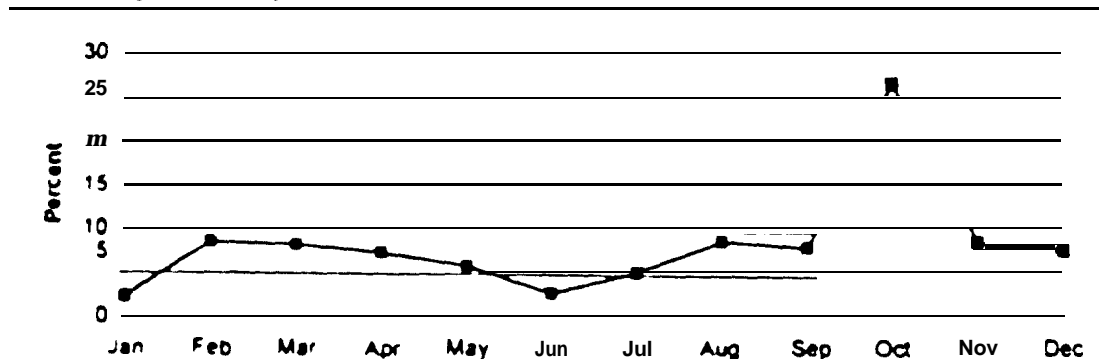
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	23	39.7%	263	39.0%
Adult Female	7	12.1%	73	10.7%
Adult Unknown Sex	1	1.7%	10	1.5%
Juvenile Male	21	36.2%	236	35.0%
Juvenile Female	1	1.7%	17	2.5%
Juvenile Unknown Sex	1	1.7%	10	1.5%
Pup Male	0	0.0%	0	0.0%
Pup Female	0	0.0%	0	0.0%
Pup Unknown Sex	0	0.0%	0	0.0%
Male Unknown Age	0	0.0%	0	0.0%
Female Unknown Age	4	6.9%	6.6	9.6%
Unknown Sex and Age	0	0.0%	0	0.0%
Total	58	100.0%	676	100.0%

SOURCE

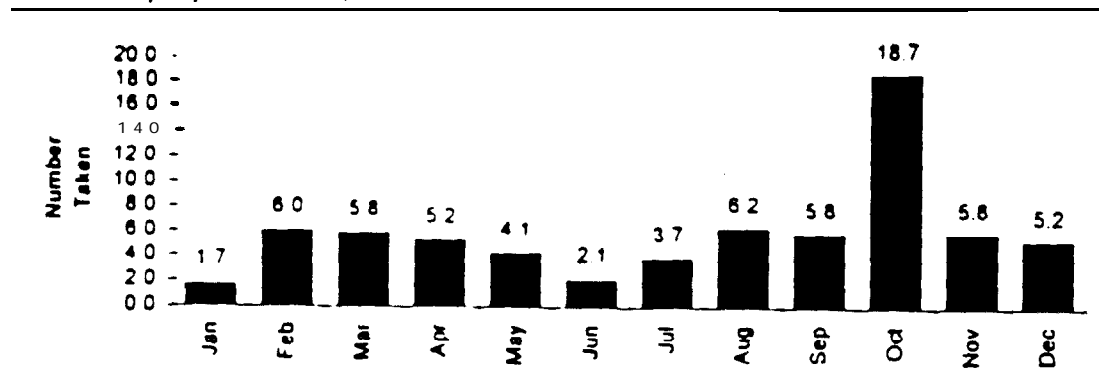
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1994.

FIGURE 64. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: OLD HARBOR, 1993

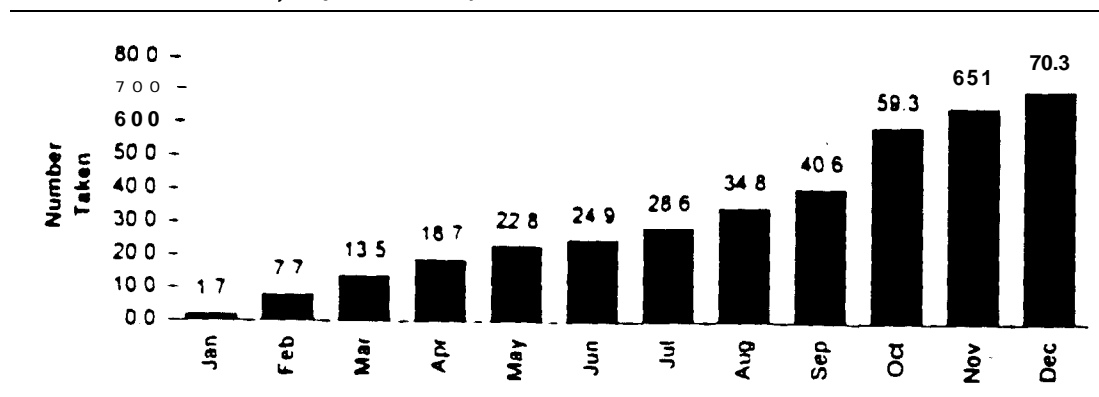
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1994.

TABLE 66. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	65
Surveyed Households	60
Sampling Fraction	92.3%
Sample Household Members	195
Estimated Household Members	211.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	6.7%
Hunted	5.0%
Harvested	5.0%
Received	3.3%
Gave Away	3.3%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	5.4
Total Number Struck and Lost	2.2
Total Number Taken	7.6
Number Harvested Per Capita	0.03

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	0	0	0	1	0	3	5
Struck and Lost	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Total Take	0	0	0	0	3	0	0	0	0	0	1	0	3	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.3	5.4
Struck and Lost	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Total Take	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.3	7.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7	0.0		5.4
Struck and Lost	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.2
Total Take	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	2.7	0.0		7.6
Law Take (%)	0.0%	0.0%	0.0%	0.0%	64.3%	0.0%	0.0%	0.0%	0.0%	0.0%	35.7%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	7.6	7.6		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	64.3%	64.3%	64.3%	64.3%	64.3%	64.3%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

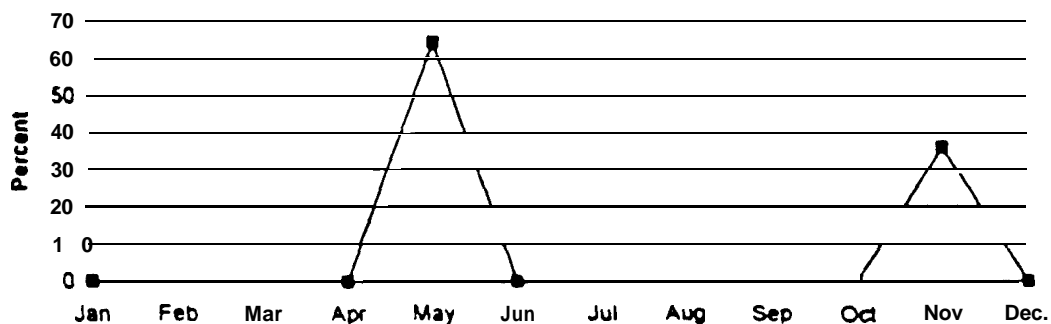
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	40.0%	2.2	40.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown sex and Age	3	60.0%	3.3	60.0%
Total	5	100.0%	5.4	100.0%

SOURCE

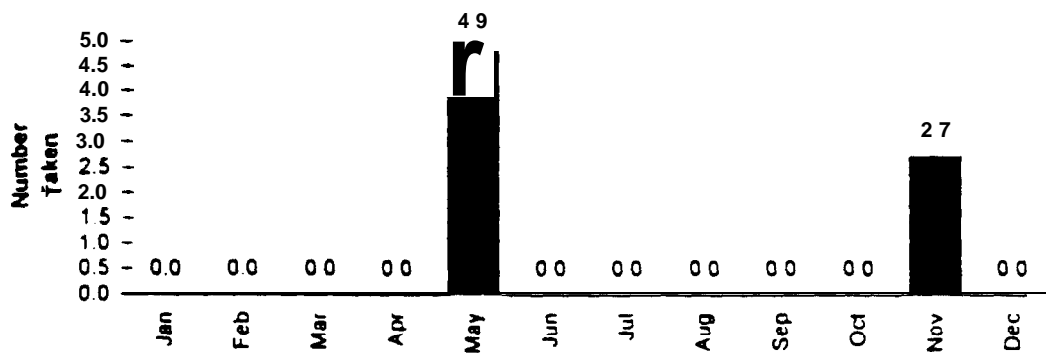
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1994.

FIGURE 65. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: OUZINKIE, 1993

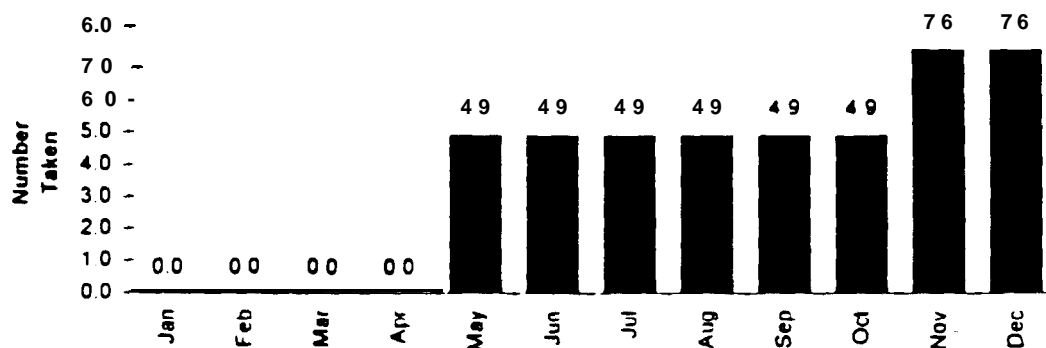
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1994.

TABLE 66. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	65
surveyed Households	60
Sampling Fraction	92.3%
Sample Household Members	195
Estimated Household Members	211.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
used 467%	Total Number Harvested 41.2
Hunted 33.3%	Total Number Struck and Lost 6.7
Harvested 30.0%	Total Number Taken 49.8
Received 36.7%	Number Harvested Per Capita 0.19
Gave Away 30.0%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	2	0	0	0	1	6	4	7	2	4	9	38
Struck and Lost	0	0	0	0	0	0	0	4	0	0	0	0	4	8
Total Take	2	1	2	0	0	0	1	10	4	7	2	4	13	46
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	1.1	2.2	0.0	0.0	0.0	1.1	6.5	4.3	7.6	2.2	4.3	9.8	41.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	4.3	8.7
Total Take	2.2	1.1	2.2	0.0	0.0	0.0	1.1	10.8	4.3	7.6	2.2	4.3	14.1	49.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.8	1.4	2.8	0.0	0.0	0.0	1.4	8.5	5.7	9.9	2.8	5.7		41.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0		8.7
Total Take	2.8	1.4	2.8	0.0	0.0	0.0	1.4	17.2	5.7	9.9	2.8	5.7		49.8
Total Take (%)	5.7%	2.8%	5.7%	0.0%	0.0%	0.0%	2.8%	34.5%	11.4%	19.9%	5.7%	11.4%		100%
Cumulative Take	2.2	4.3	7.1	7.1	7.1	7.1	8.5	23.7	31.4	41.3	44.2	49.8		
Cum Take (%)	5.7%	8.5%	14.2%	14.2%	14.2%	14.2%	17.1%	51.6%	63.0%	82.9%	88.6%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

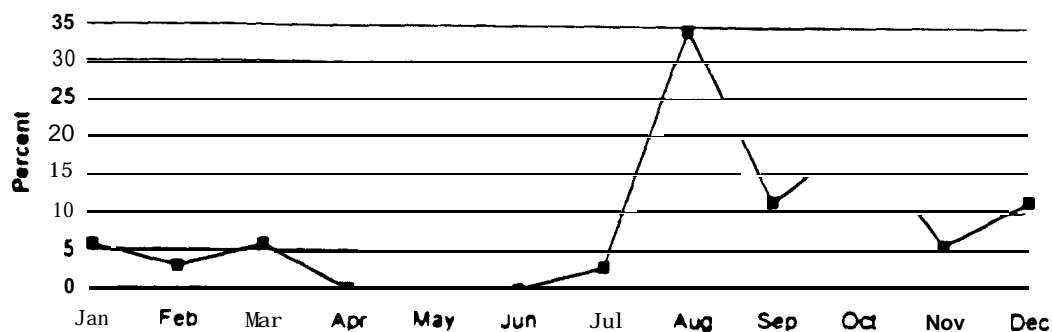
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	6	15.8%	6.5	15.6%
Adult Female	2	5.3%	2.2	5.3%
Adult Unknown Sex	4	10.5%	4.3	10.5%
Juvenile Male	10	26.3%	10.8	26.3%
Juvenile Female	3	7.9%	3.3	7.9%
Juvenile Unknown Sex	4	10.5%	4.3	10.5%
Pup Male	1	2.6%	1.1	2.6%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	8	21.1%	6.7	21.1%
Total	36	100.0%	41.2	100.0%

SOURCE

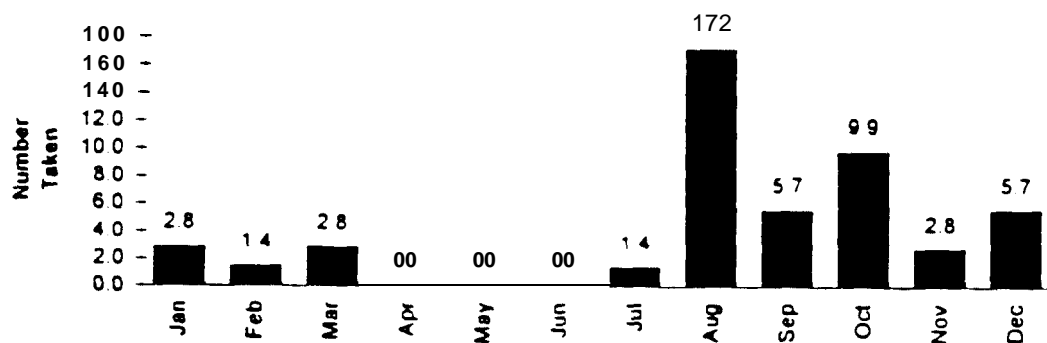
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1994

FIGURE 66. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: OUZINKIE, 1993

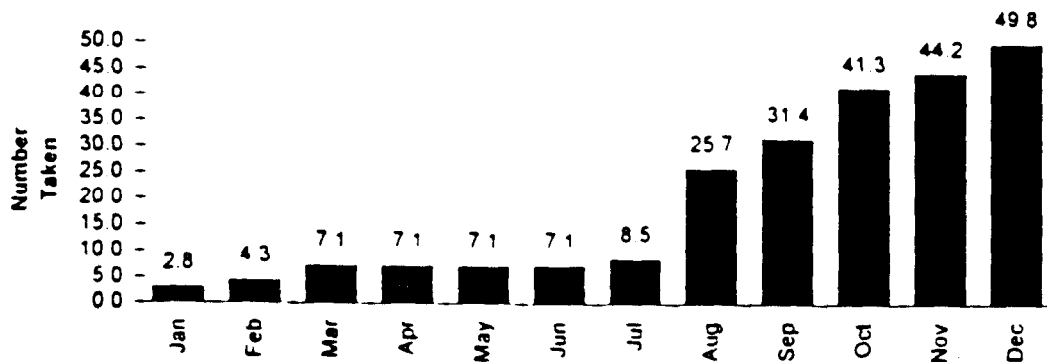
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1994

TABLE 87. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	7	52	59
Surveyed Households	7	26	33
Sampling Fraction	100.0%	50.0%	55.9%
Sample Household Members	28	77	105
Estimated Household Members	28.0	154.0	182.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	E	-	Community Harvest and Take (Expanded):
Used 68%			Total Number Harvested 4.0
Hunted 66%			Total Number Struck or Lost 1.0
Harvested 6.8%			Total Number Taken 5.0
Received 0.0%			Number Harvested Per Capita 0.02
Gave Away 6.8%			

SEA UON HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	4	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	1	0	0	0	1	0	0	0	3
Struck and Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Take	0	0	0	1	0	2	0	0	0	1	0	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	4.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
T o w Take	0.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	5.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0. 0	0. 0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0		4.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0
Total Take	0.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0		5.0
Total Take (%)	0. 0%	0.0%	0.0%	40.0%	0.0%	40.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0. 0	0.0	2.0	2.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0		
Cum Take (%)	0. 0%	0.0%	0.0%	40.0%	40.0%	80.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%		

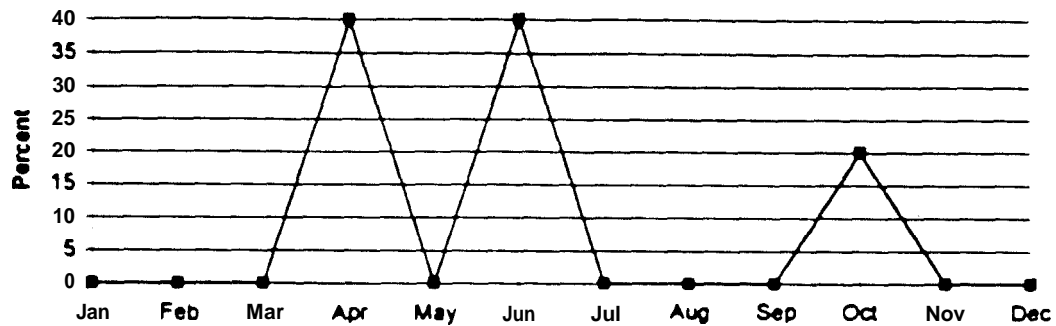
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	1	33.3%	1.0	25.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	66.7%	3.0	75.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	4.0	100.0%

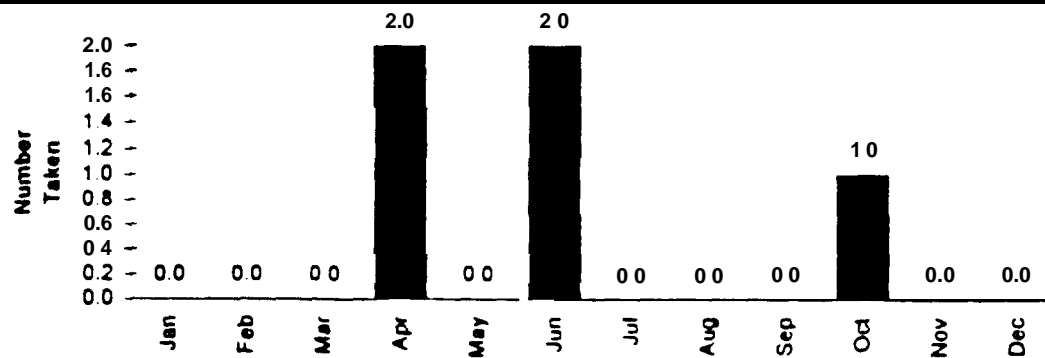
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1994.

FIGURE 67. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT LIONS, 1993

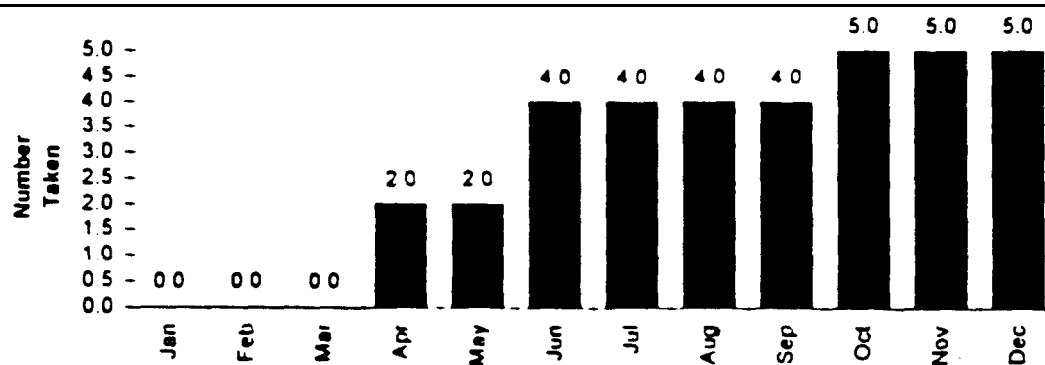
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulrtiw Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1994.

TABLE 88. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1993

SAMPLING DESIGN TWO STRATA

	Active	Other	Total
Total Native Households	7	52	59
Surveyed Households	7	26	33
Sampling Fraction	100.0%	50.0%	55.9%
Sample Household Members	26	77	105
Estimated Household Members	28.0	154.0	162.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households		E	-	Community Harvest and Take (Expanded):	
Used	28.8%			Total Number Harvested	26.0
Hunted	10.2%			Total Number Struck and Lost	1.0
Harvested	10.2%			Total Number Taken	27.0
Received	23.7%			Number Harvested Per Capita	0.14
Gave Away	10.2%				

HARBOR SEAL HARVEST BY SEASON														Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST* AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	3	3	.		0	0	1	.	2	3	3	2	0	26	
Struck and Lost	0	0	0		0	0	0	0	0	0	0	0	0	1	
Total Take	3	3	.	2	0	0	1	4	2	3	3	2	0	27	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.0	3.0	4.0	1.0	0.0	0.0	1.0	4.0	2.0	3.0	3.0	2.0	0.0	26.0	
Struck and Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
Total Take	3.0	3.0	4.0	2.0	0.0	0.0	1.0	4.0	2.0	3.0	3.0	2.0	0.0	27.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST* AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.0	3.0	4.0	1.0	0.0	0.0	1.0	4.0	2.0	3.0	3.0	2.0		26.0	
Struck and Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0	
Total Take	3.0	3.0	4.0	2.0	0.0	0.0	1.0	4.0	2.0	3.0	3.0	2.0		27.0	
Total Take (%)	11.1%	11.1%	14.8%	7.4%	0.0%	0.0%	3.7%	14.8%	7.4%	11.1%	11.1%	7.4%		100%	
Cumulative Take	1.0	8.0	10.0	12.0	12.0	12.0	13.0	17.0	19.0	20.0	23.0	25.0		27.0	
Cum Take (%)	11.1%	22.2%	37.0%	44.4%	44.4%	44.4%	48.1%	63.0%	70.4%	81.5%	92.6%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

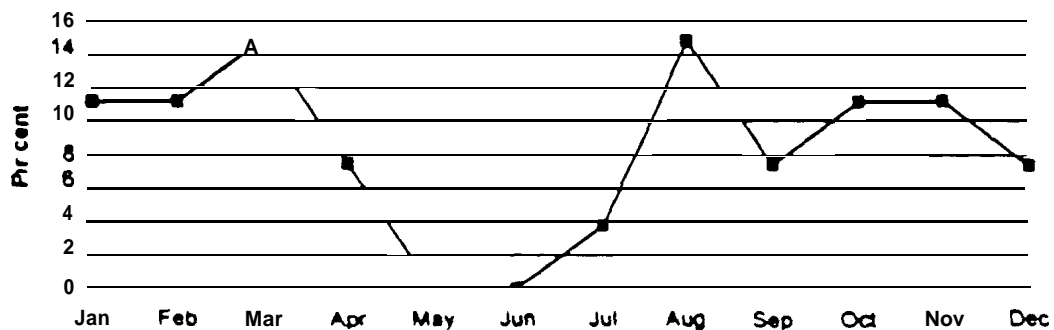
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Molt	5	19.2%	5.0	19.2%
Adult Female	2	7.7%	2.0	7.1%
Adult Unknown Sex	6	23.1%	6.0	23.1%
Juvenile Male	6	23.1%	6.0	23.1%
Juvenile Female	4	15.4%	4.0	15.4%
Juvenile Unknown Sex	3	11.5%	3.0	11.5%
Pup Molt	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Molt Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	26	100.0%	26.0	100.0%

SOURCE

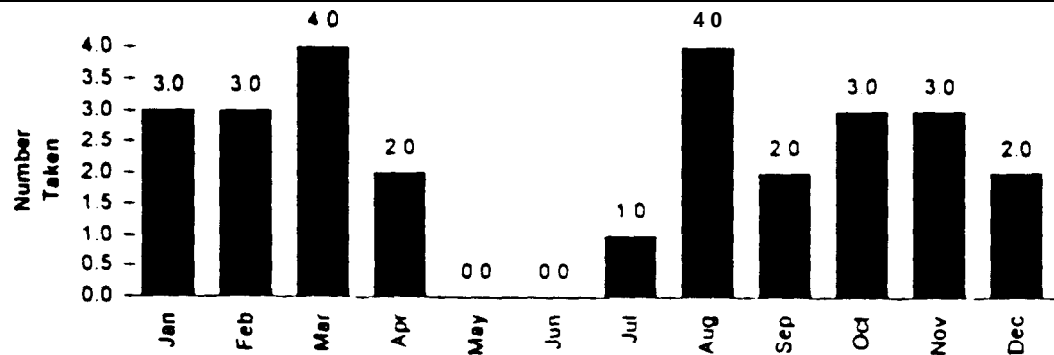
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1994.

FIGURE 68. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT LIONS. 1993

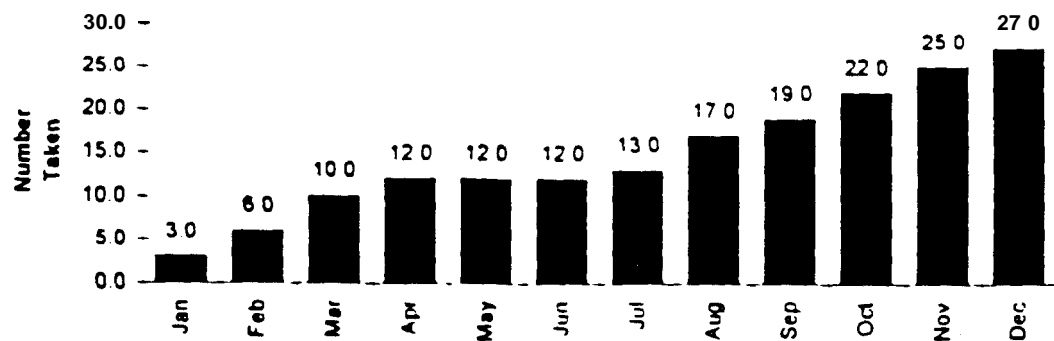
A. Percentage Seasonally Adjusted Take By Month



8. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1994.

SOUTH ALASKA PENINSULA

TABLE 88. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHIGNIK MY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	25
Surveyed Households	20
Sampling Fraction	80.0%
Sample Household Members	83
Estimated Household Members	78.8

SEA LION HARVEST AND USE INFORMATION

Percent of Native Households	Estimated Community Harvest and Take (Expanded)
Used 0.0%	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.0%	Number Harvested Per Capita 0.00
Gave Away 0.0%	

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED):														
Harvest	00	0.0	00	00	00	00	00	00	00	00	00	00	00	00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Total Take	0.0	00	00	00	00	00	00	00	00	00	00	00	00	00
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED):														
Harvest	0.0	0.0	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take	00	00	00	00	00	00	00	00	00	00	00	00		00
Total Take (%)														
Cumulative Take	00	00	00	00	00	00	00	00	00	00	00	00		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

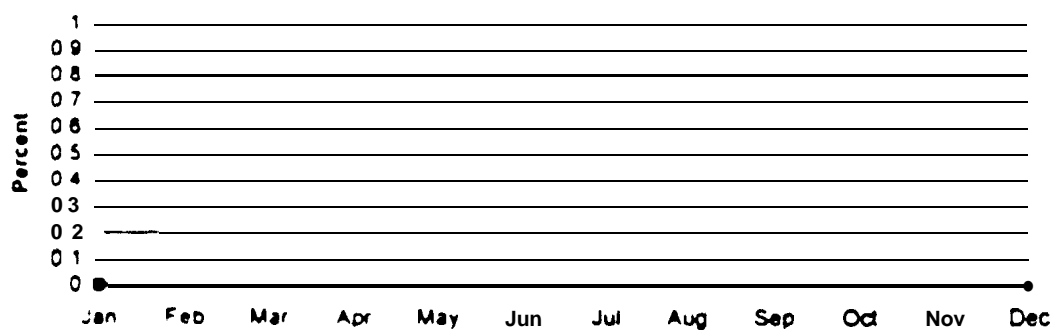
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
Pup Male	0	—	00	—
Pup Female	0	—	00	—
Pup Unknown Sex	0	—	00	—
Male Unknown Age	0	—	00	—
Female Unknown Age	0	—	00	—
Unknown Sex and Age	0	—	00	—
Total	0	—	00	—

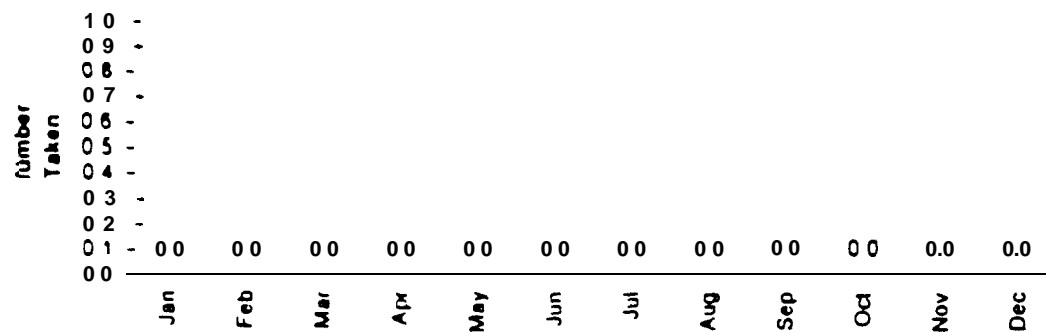
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1994.

FIGURE 69. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CHIGNIK BAY, 1993

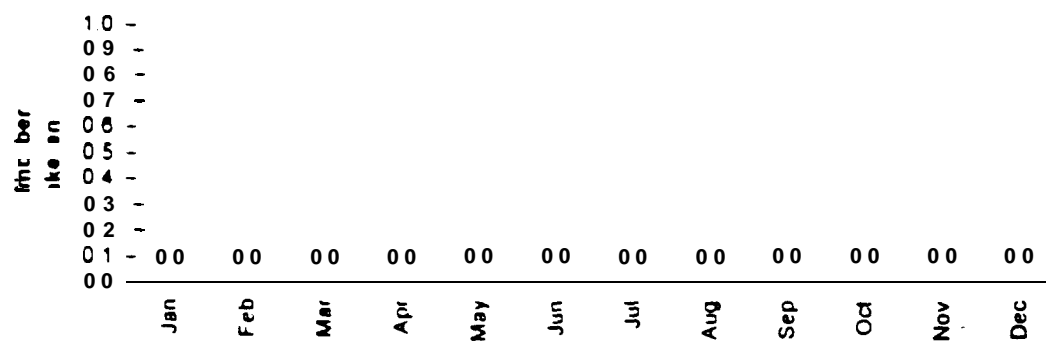
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chignik Bay Traditional Village Council: 1994

TABLE 70. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK BAY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	25
Surveyed Households	20
Sampling Fraction	80.0%
Sample Household Members	63
Estimated Household Members	78.1

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households.	Estimated Community Harvest and Take (Expanded)
used 20.0%	Total Number Harvested 6.3
Hunted 15.0%	Total Number Struck and Lost 5.0
Harvested 15.0%	Total Number Taken 11.3
Received 5.0%	Number Harvested Per Capita 0.08
Gave Away 10.0%	

IARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	2	1	0	1	0	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Total Take	0	0	0	1	0	0	0	0	2	1	0	1	4	9
STIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.5	1.3	0.0	1.3	0.0	6.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
Total Take	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.5	1.3	0.0	1.3	5.0	11.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.5	1.3	0.0	1.3		6.3
Struck and Lost	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		5.0
Total Take	0.4	0.4	0.4	1.7	0.4	0.4	0.4	0.4	2.9	1.7	0.4	1.7		11.3
Low Take (%)	3.7%	3.7%	3.7%	14.8%	3.7%	3.7%	3.7%	3.7%	25.9%	14.8%	3.7%	14.8%		100%
Cumulative Take	0.4	0.8	1.3	2.9	3.3	3.8	4.2	4.6	7.5	9.2	9.6	11.3		
Cum Take (%)	3.7%	7.4%	11.1%	25.9%	29.6%	33.3%	37.0%	40.7%	66.7%	81.5%	85.2%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

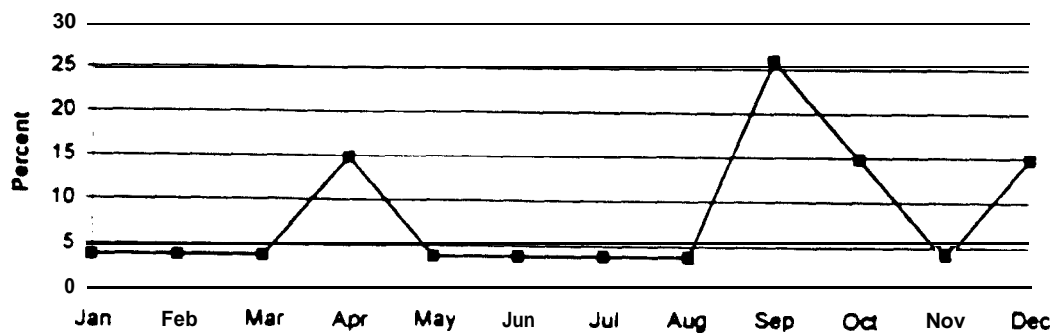
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	200%	1.3	200%
Adult Female	0	00%	0.0	00%
Adult Unknown Sex	1	200%	1.3	20.0%
Juvenile Male	2	400%	2.5	400%
Juvenile Female	0	00%	0.0	00%
Juvenile Unknown Sex	1	200%	1.3	20.0%
Pup Male	0	00%	0.0	00%
Pup Female	0	00%	0.0	00%
Pup Unknown Sex	0	00%	0.0	00%
Molt Unknown Age	0	00%	0.0	00%
Female Unknown Age	0	00%	0.0	00%
Unknown Sex and Age	0	00%	0.0	00%
Total	5	100.0%	6.3	100.0%

SOURCE

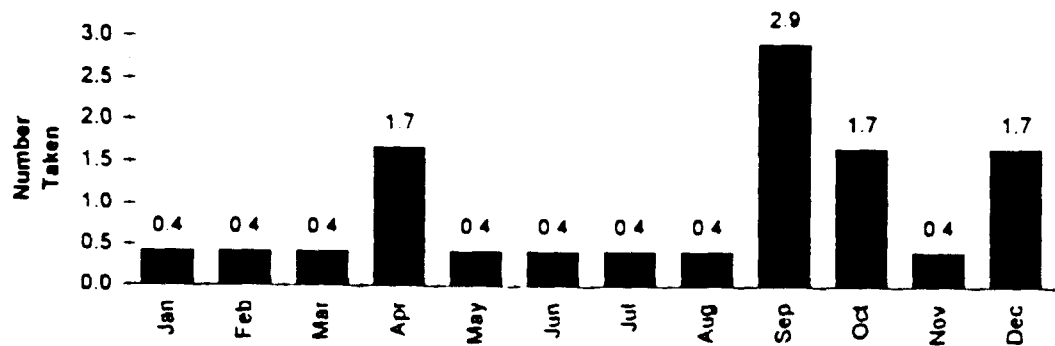
Alaska Department of Fish and Game Division of Subsistence Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chignik Bay Traditional Village Council 1994

FIGURE 70. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK BAY, 1993

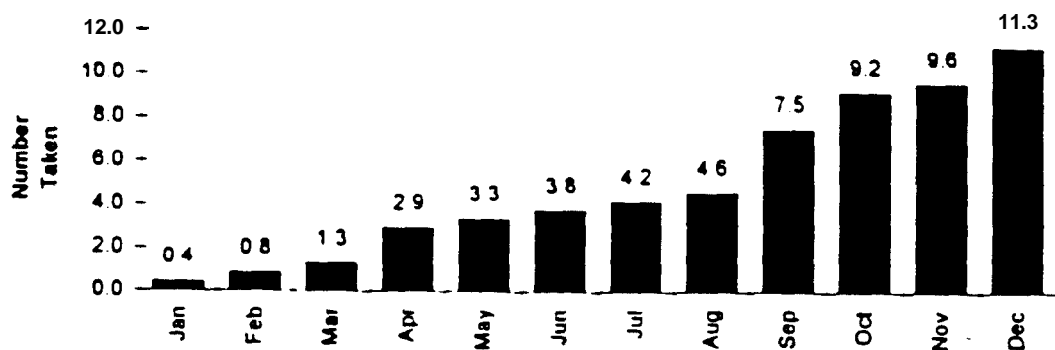
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1994.

TABLE 71. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	15
Sampling Fraction	93.8%
Sample Household Members	52
Estimated Household Members	55.5

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	8.7%
Hunted	8.7%
Harvested	8.7%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	1.1
Total Number Struck and Lost	0.0
Total Number Taken	1.1
Number Harvested Per Capita	0.02

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	1	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1		
Cumulative Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

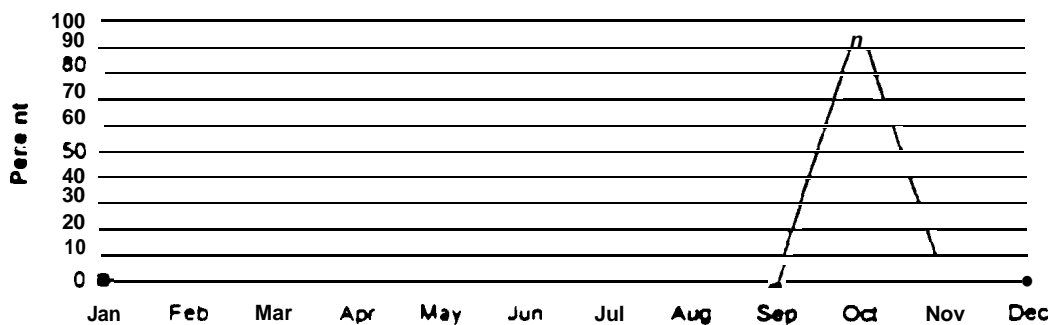
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	1	100.0%	1.1	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

SOURCE:

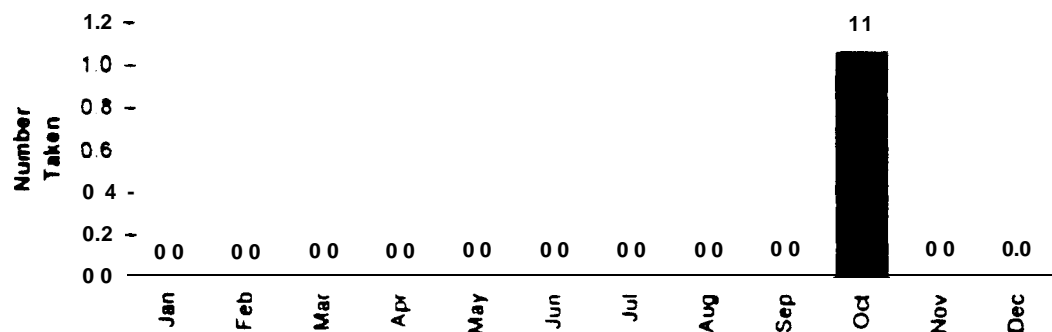
Alaska Department of Fish and Game: Division of Subsistence: Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chignik Lagoon Traditional Village Council, 1994

FIGURE 71. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CHIGNIK LAGOON, 1993

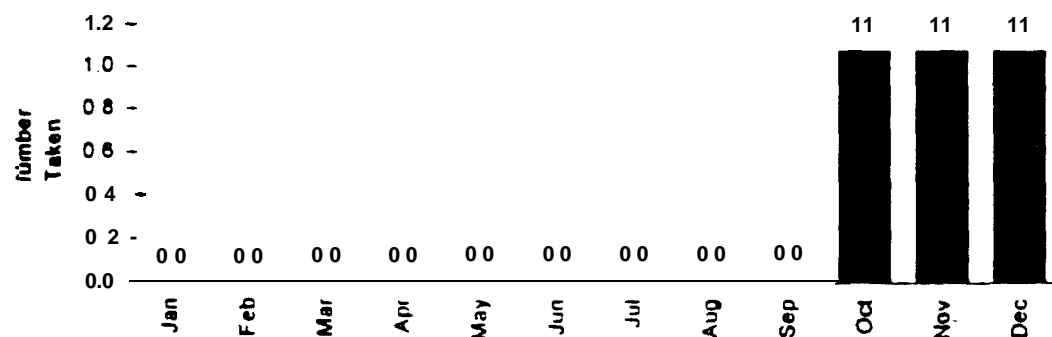
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1994.

TABLE 72 HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	16
Surveyed Households	15
Sampling Fraction	93.8%
Sample Household Members	52
Estimated Household Members	55.5

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	E	-	Community Harvest and Take (Expanded)
Used 20.0%			Total Number Harvested 4.3
Hunted 20.0%			Total Number Struck and Lost 1.1
Harvested 20.0%			Total Number Taken 5.3
Received 0.0%			Number Harvested Per Capita 0.06
Gave Away 0.0%			

HARBOR SEAL HARVEST BY SEASON													Unknown	1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	0	2	0	1	0	0	4
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	1	0	0	0	0	0	0	0	2	0	1	0	1	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1	0.0	0.0	4.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
Total Take	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1	0.0	1.1	5.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1	0.0		4.3
Struck and Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.1
Total Take	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.2	0.1	1.2	0.1		5.3
Total Take (%)	21.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	41.2%	1.7%	21.7%	1.7%		100%
Cumulative Take	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	4.0	4.1	5.2	5.3		
Cum Take (%)	21.7%	23.3%	25.0%	26.7%	22.38	30.0%	31.7%	33.3%	75.0%	76.7%	98.3%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

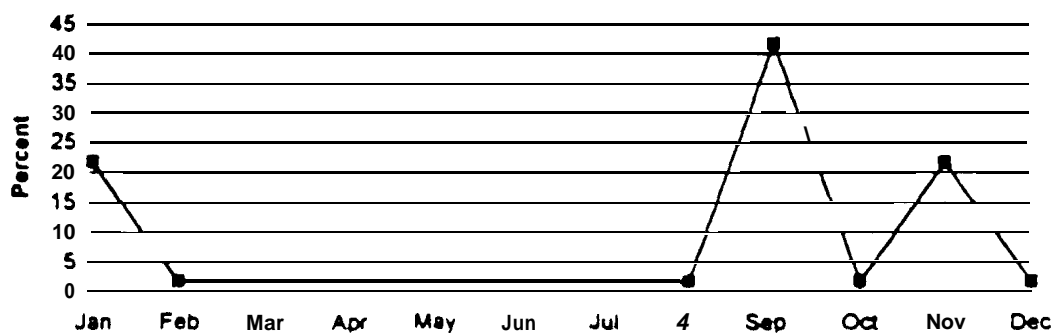
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	100.0%	4.3	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	4	100.0%	4.3	100.0%

SOURCE

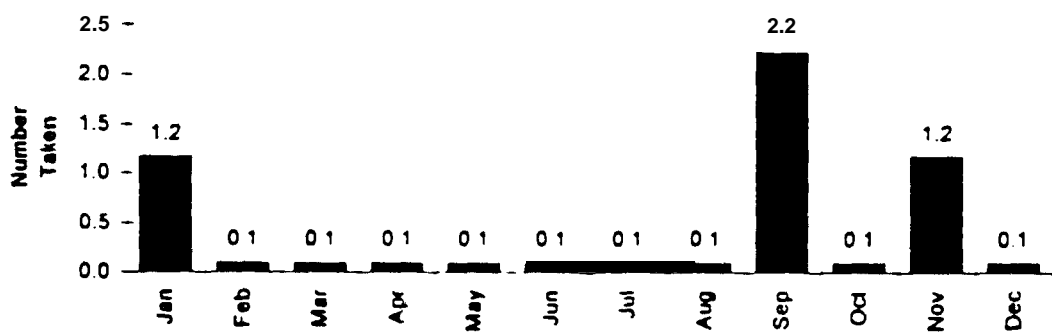
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1994.

FIGURE 72. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK LAGOON, 1993

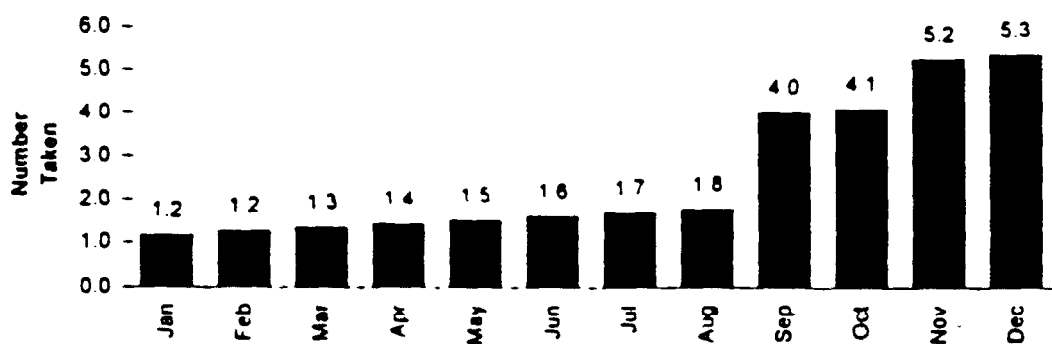
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1994.

TABLE 73. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1993

SAMPLING DESIGN CENSUS

Total Native Households	38
Surveyed Households	28
Sampling Fraction	72.2%
Sample Household Members	109
Estimated Household Members	150.9

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	30	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	00	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	30	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	00	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	00	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)														
Cumulative Take	0.0	00	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	00%	00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

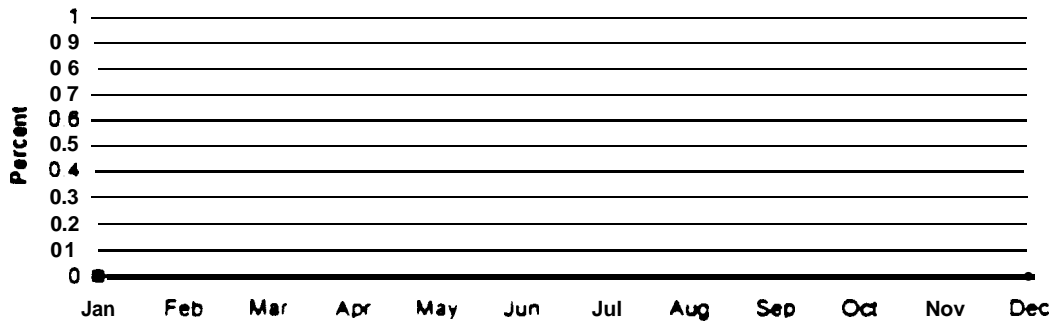
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

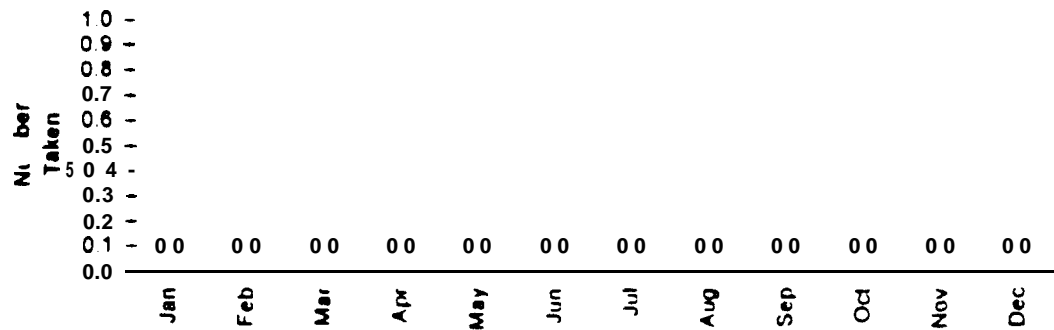
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1994.

FIGURE 73. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CHIGNIK LAKE, 1993

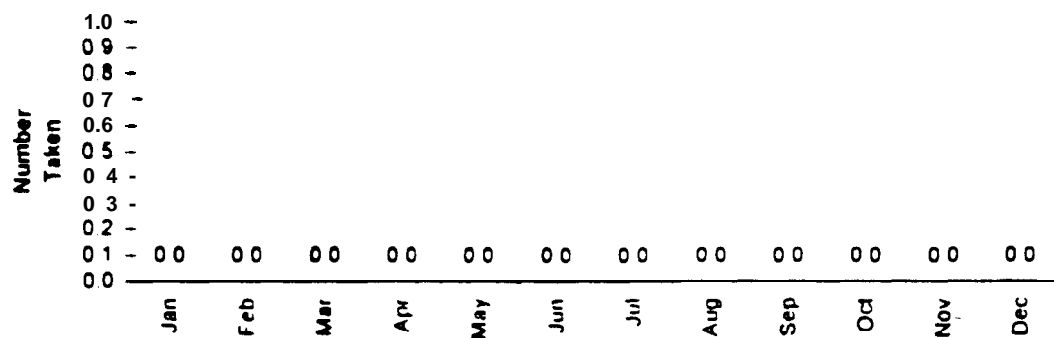
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1994.

TABLE 74. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	38
Surveyed Households	26
Sampling Fraction	72.2%
Sample Household Members	109
Estimated Household Members	150.9

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 84.6%	Total Number Harvested 15.2
Hunted 36.5%	Total Number Struck and Lost 5.5
Harvested 19.2%	Total Number Taken 20.6
Received 84.6%	Number Harvested Per Capita 0.10
Gave Away 69.2%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	3	1	2	2	2	0	11
Struck and Lost	0	0	0	0	0	0	0	2	1	1	0	0	0	4
Total Take	0	0	0	0	0	1	0	5	2	3	2	2	0	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.4	0.0	4.2	1.4	2.8	2.8	2.8	0.0	15.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.4	1.4	0.0	0.0	0.0	5.5
Total Take	0.0	0.0	0.0	0.0	0.0	1.4	0.0	6.9	2.8	4.2	2.8	2.4	0.0	20.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.4	0.0	4.2	1.4	2.8	2.8	2.8		15.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.4	1.4	0.0	0.0		5.5
Total Take	0.0	0.0	0.0	0.0	0.0	1.4	0.0	6.9	2.8	4.2	2.1	2.8		8.8
Total Take (%)	0.08	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	33.3%	13.3%	20.0%	13.3%	13.3%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	1.4	1.4	8.3	11.1	15.2	18.0	20.6		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	6.7%	40.0%	53.3%	73.3%	86.7%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

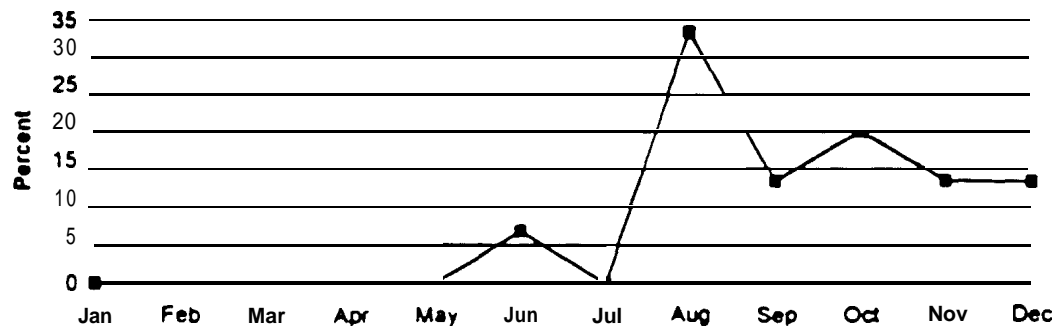
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	6	54.5%	6.3	54.5%
Adult Female	0	00%	0.0	00%
Adult Unknown Sex	3	27.3%	4.2	27.3%
Juvenile Male	0	00%	0.0	00%
Juvenile Female	0	00%	0.0	00%
Juvenile Unknown Sex	2	18.2%	2.8	18.2%
Pup Male	0	00%	0.0	00%
Pup Female	0	00%	0.0	00%
Pup Unknown Sex	0	00%	0.0	00%
Male Unknown Age	0	00%	0.0	00%
Female Unknown Age	0	00%	0.0	00%
Unknown Sex and Age	0	00%	0.0	00%
Total	11	1000%	15.2	1000%

SOURCE

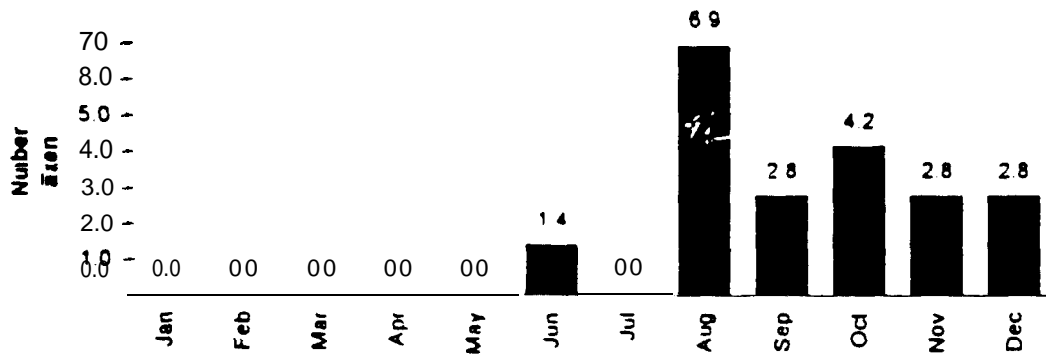
Alaska Department of Fish and Game: Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1994.

FIGURE 74. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK LAKE, 1993

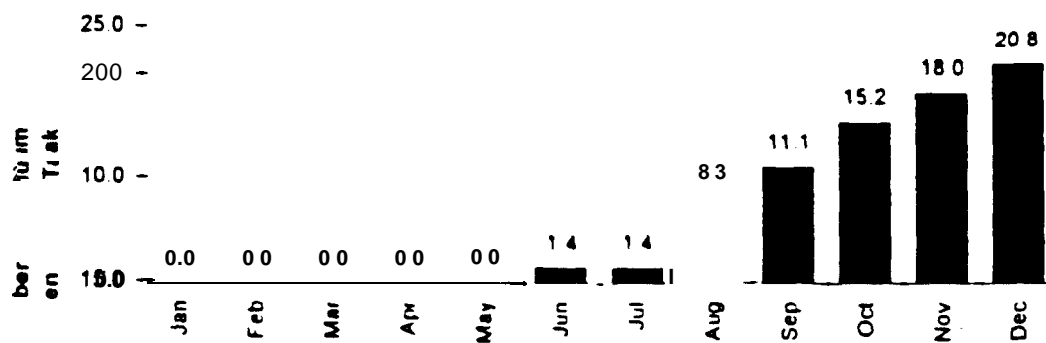
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1994.

TABLE 76. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	20
Surveyed Households	20
Sampling Fraction	1000%
Sample Household Members	60
Estimated Household Members	60 0

SEA LION HARVEST AND USE INFORMATION

Percent of Native Households	Estimated Community Harvest and Take (Expanded):
Used 0 0 %	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0 0
Harvested 0 0 %	Total Number Taken 0 0
Received 0 0 %	Number Harvested Per Capita 0 0 0
Gave Away 0 0 %	

SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	0.0	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	
Struck and Lost	00	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	0.0	
Total Take	00	0.0	00	00	00	00	00	00	00	00	00	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	00	00	00	0 0	00	0 0	00	00	00	00	00		00	
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		00	
Total Take	00	00	00	00	00	00	00	00	00	00	00	0.0		00	
Total Take (%)															
Cumulative Take	0.0	0.0	00	00	0 0	00	00	00	00	00	00	00			
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0 0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

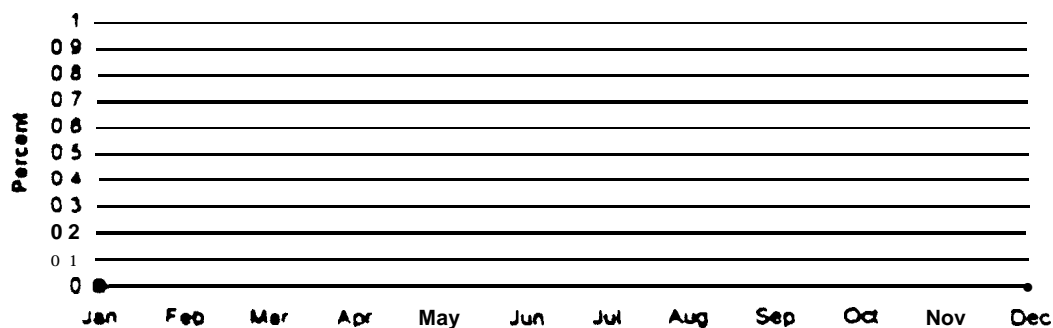
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample	Percent	Estimated By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0 0	—
Adult Female	0	—	0 0	—
Adult Unknown Sex	0	—	0 0	—
Juvenile Male	0	—	0 0	—
Juvenile Female	0	—	0 0	—
Juvenile Unknown Sex	0	—	0 0	—
Pup Male	0	—	0 0	—
Pup Female	0	—	0 0	—
Pup Unknown Sex	0	—	0 0	—
Male Unknown Age	0	—	0 0	—
Female Unknown Age	0	—	0 0	—
Unknown Sex and Age	0	—	0 0	—
Total	0	—	0 0	—

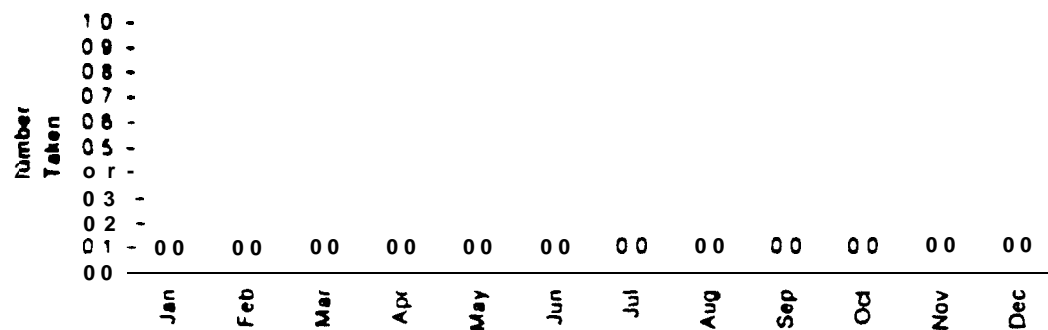
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1994.

FIGURE 76. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: FUSE PASS, 1993

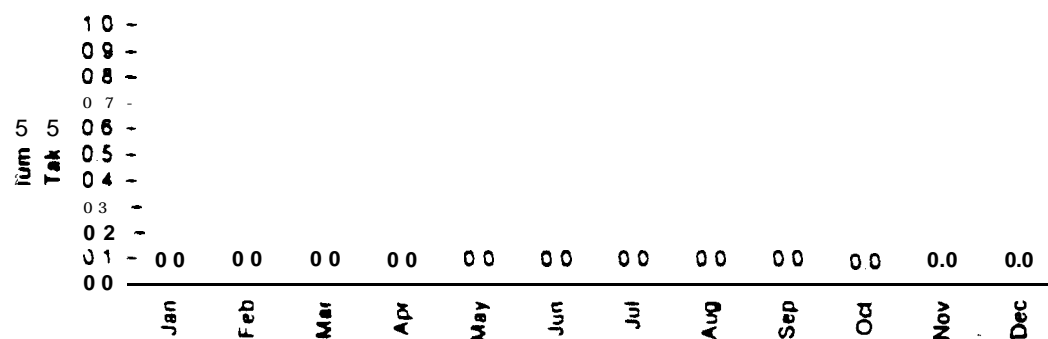
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1994.

TABLE 76. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	20
surveyed Households	20
Sampling Fraction	1000%
Sample Household Members	60
Estimated Household Members	60.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
used 65.0%	Total Number Harvested 19.0
Hunted 30.0%	Total Number Struck and Lost 0.0
Harvested 30.0%	Total Number Taken 19.0
Received 40.0%	Number Harvested Per Capita 0.32
Gave Away 40.0%	

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	1	3	1	1	1	3	1	2	3	1	1	0	19	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	1	1	3	1	1	1	3	1		2	3	1	1	19	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	1.0	3.0	1.0	1.0	1.0	3.0	1.0	2.0	3.0	1.0	1.0	0.0	18.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	1.0	1.0	3.0	1.0	1.0	1.0	3.0	1.0	2.0	3.0	1.0	1.0	0.0	19.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	1.0	3.0	1.0	1.0	1.0	3.0	1.0	2.0	3.0	1.0	1.0		19.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	1.0	1.0	3.0	1.0	1.0	1.0	3.0	1.0	2.0	3.0	1.0	1.0		19.0	
Total Take (%)	5.3%	4.3%	15.8%	5.3%	5.3%	5.3%	15.8%	5.3%	10.5%	15.8%	5.3%	5.3%		100%	
Cumulative Take	1.0	2.0	5.0	6.0	7.0	8.0	11.0	12.0	14.0	17.0	18.0	19.0			
Cumulative Take (%)	5.3%	10.5%	26.3%	31.6%	36.8%	42.1%	57.9%	63.2%	73.7%	89.5%	94.7%	100.0%			

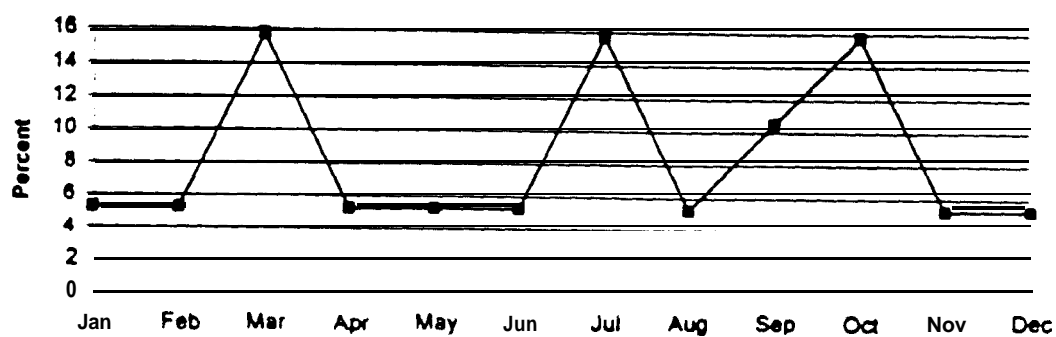
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	10.5%	10	10.5%
Adult Female	0	0.0%	0	0.0%
Adult Unknown sex	16	84.2%	160	84.2%
Juvenile Male	0	0.0%	0	0.0%
Juvenile Female	0	0.0%	0	0.0%
Juvenile Unknown Sex	0	0.0%	0	0.0%
Pup Male	0	0.0%	0	0.0%
Pup Female	0	0.0%	0	0.0%
Pup Unknown Sex	0	0.0%	0	0.0%
Male Unknown Age	0	0.0%	0	0.0%
Female Unknown Age	0	0.0%	0	0.0%
Unknown Sex and Age	1	5.3%	10	5.3%
Total	19	100.0%	190	100.0%

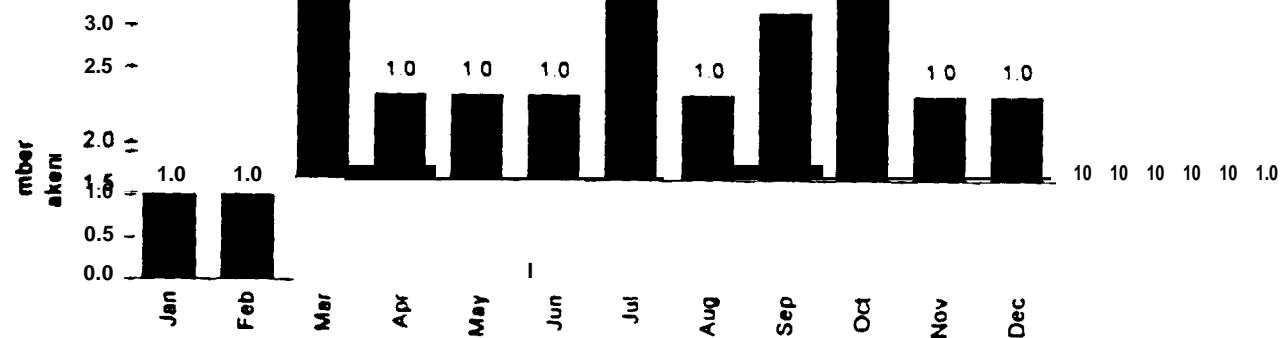
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1994.

FIGURE 78. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: FALSE PUS. 1993

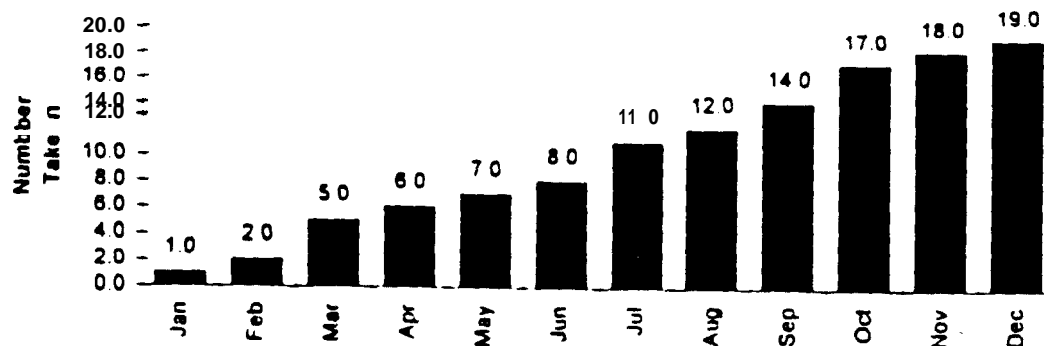
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1994

TABLE 77. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NANOF BAY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	7
Surveyed Households	6
Sampling Fraction	85.7%
Sample Household Members	26
Estimated Household Members	30.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households
 Used 50.0%
 Hunted 85.7%
 Harvested 33.3%
 Received 16.7%
 Gave Away 33.3%

Estimated Community Harvest and Take (Expanded).

Total Number Harvested	2.3
Total Number Struck and Lost	1.2
Total Number Taken	3.5
Number Harvested Per Capita	0.08

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	0	0	0	0	1	0	0	0	2
Struck and Lost	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	2	0	0	0	0	0	0	1	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		2.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		3.5
Total Take (%)	0.08	0.08	0.08	0.00	0.08	0.00	0.00	0.00	0.00	33.3%	0.00	0.08		100%
Cumulative Take	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.5	3.5		
Cum Take (%)	0.08	0.08	0.67	0.67	0.67	0.67	0.67	0.67	0.67	100.0%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

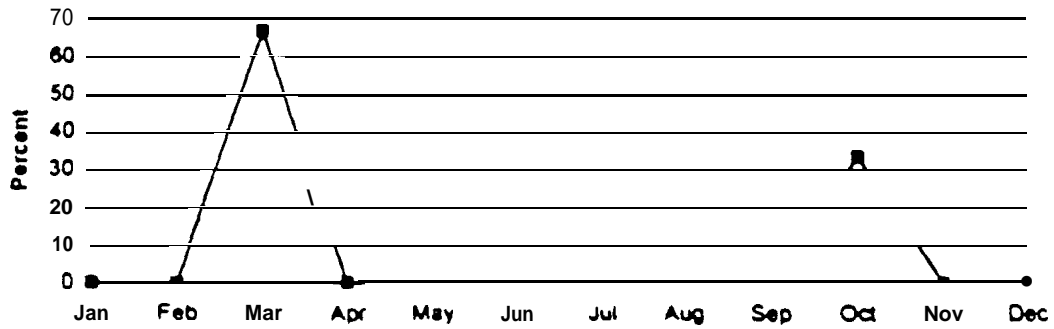
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	100.0%	2.3	100.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.3	100.0%

SOURCE:

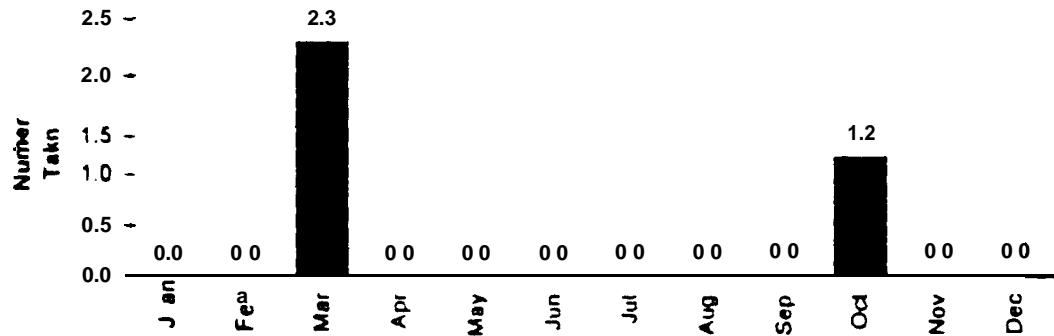
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanof Bay Traditional Village Council, 1994.

FIGURE 77. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: IVANOF BAY, 1993

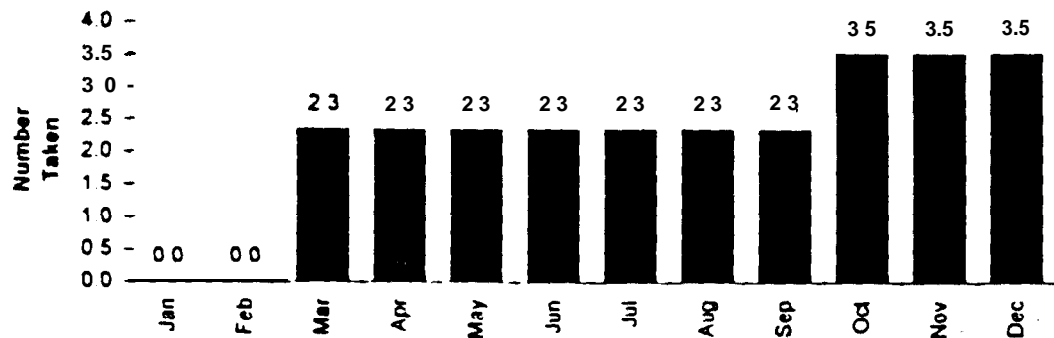
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1994.

TABLE 78. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: IVANOF BAY, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	7
Surveyed Households	6
Sampling Fraction	85.7%
Sample Household Members	26
Estimated Household Members	30.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 63.3%	Total Number Harvested 16.3
Hunted 100%	Total Number Struck and Lost 4.7
Harvested 83.3%	Tow Number Taken 21.0
Received 83.3%	Number Harvested Per Capita 0.54
Gave Away 83.3%	

HARBOR SEAL HARVEST BY SEASON													Unknown	1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	1	0	1	0	0	3	4	2	2	0	14
Struck and Lost	0	0	1	0	0	0	0	0	1	2	0	0	0	4
Total Take	0	0	2	1	0	1	0	0	4	6	2	2	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	1.2	0.0	1.2	0.0	0.0	3.5	4.7	2.3	2.3	0.0	16.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	2.3	0.0	0.0	0.0	4.7
Total Take	0.0	0.0	2.3	1.2	0.0	1.2	0.0	0.0	4.7	7.0	2.3	2.3	0.0	21.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	1.2	0.0	1.2	0.0	0.0	3.5	4.7	2.3	2.3		16.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	2.3	0.0	0.0		4.7
Total Take	0.0	0.0	2.3	1.2	0.0	1.2	0.0	0.0	4.7	7.0	2.3	2.3		21.0
Total Take (%)	0.0%	0.0%	11.1%	5.6%	0.0%	5.6%	0.0%	0.0%	22.2%	33.3%	11.1%	11.1%		100%
Cumulative Take	0.0	0.0	2.3	3.5	3.5	4.7	4.7	4.7	9.3	16.3	16.7	21.0		
Cum. Take (%)	0.0%	0.0%	11.1%	16.7%	16.7%	PA	PA	22.2%	44.5%	77.8%	88.9%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

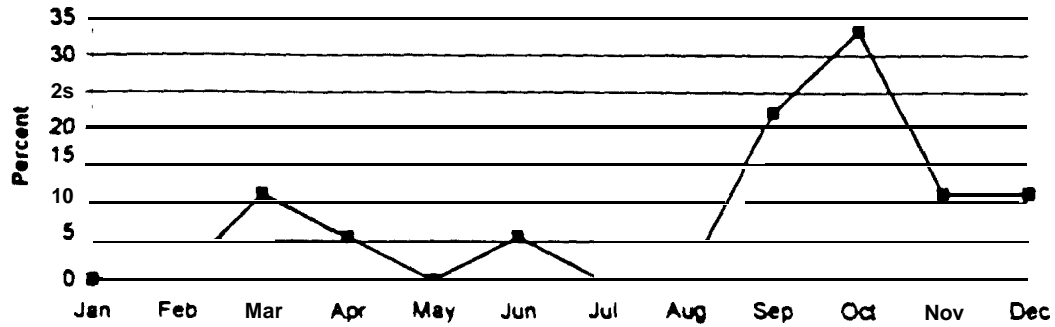
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	14.3%	2.3	14.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	21.4%	3.5	21.4%
Juvenile Male	1	7.1%	1.2	7.1%
Juvenile Female	2	14.3%	2.3	14.3%
Juvenile Unknown Sex	5	35.7%	5.8	35.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	7.1%	1.2	7.1%
Total	14	100.0%	16.3	100.0%

SOURCE

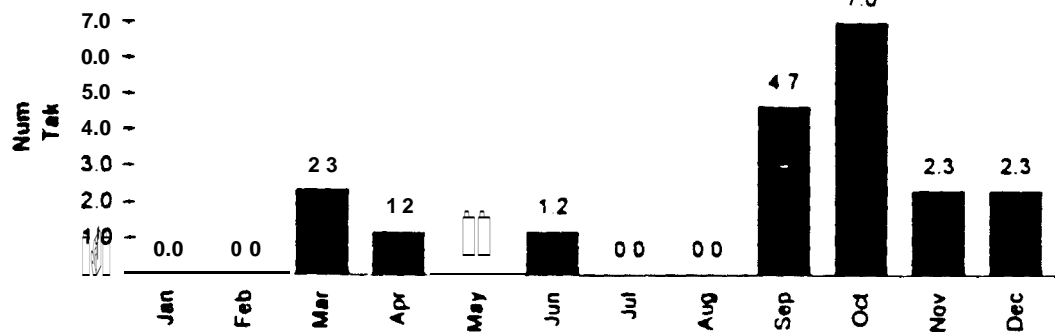
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1994

FIGURE 78. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: IVANOF BAY, 1993

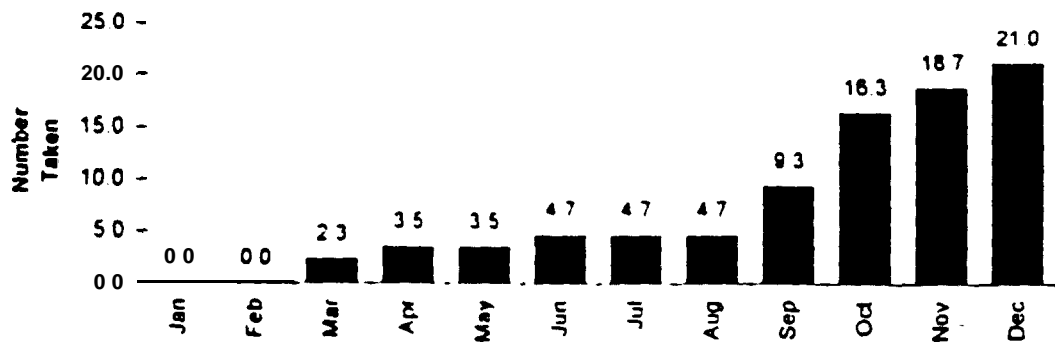
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1994.

TABLE 79. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KING COVE, 1993

SAMPLING DESIGN TWO STRATA

	Active	Other	Total
Total Native Households	14	103	117
Surveyed Households	12	26	38
Sampling Fraction	85.7%	25.2%	32.5%
Sample Household Members	45	89	134
Estimated Household Members	52.5	352.6	405.1

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households		E	-	Community Harvest and Take (Expanded):	
Used	3.0%			Total Number Harvested	1.2
Hunted	1.0%			Total Number Struck and Lost	0.0
Harvested	1.0%			Total Number Taken	1.2
Received	3.0%			Number Harvested Per Capita	0.00
Gave Away	1.0%				

SEA LION HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	
Total Take R 1	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%	
Cumulative Take	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
Cum Take (%)	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

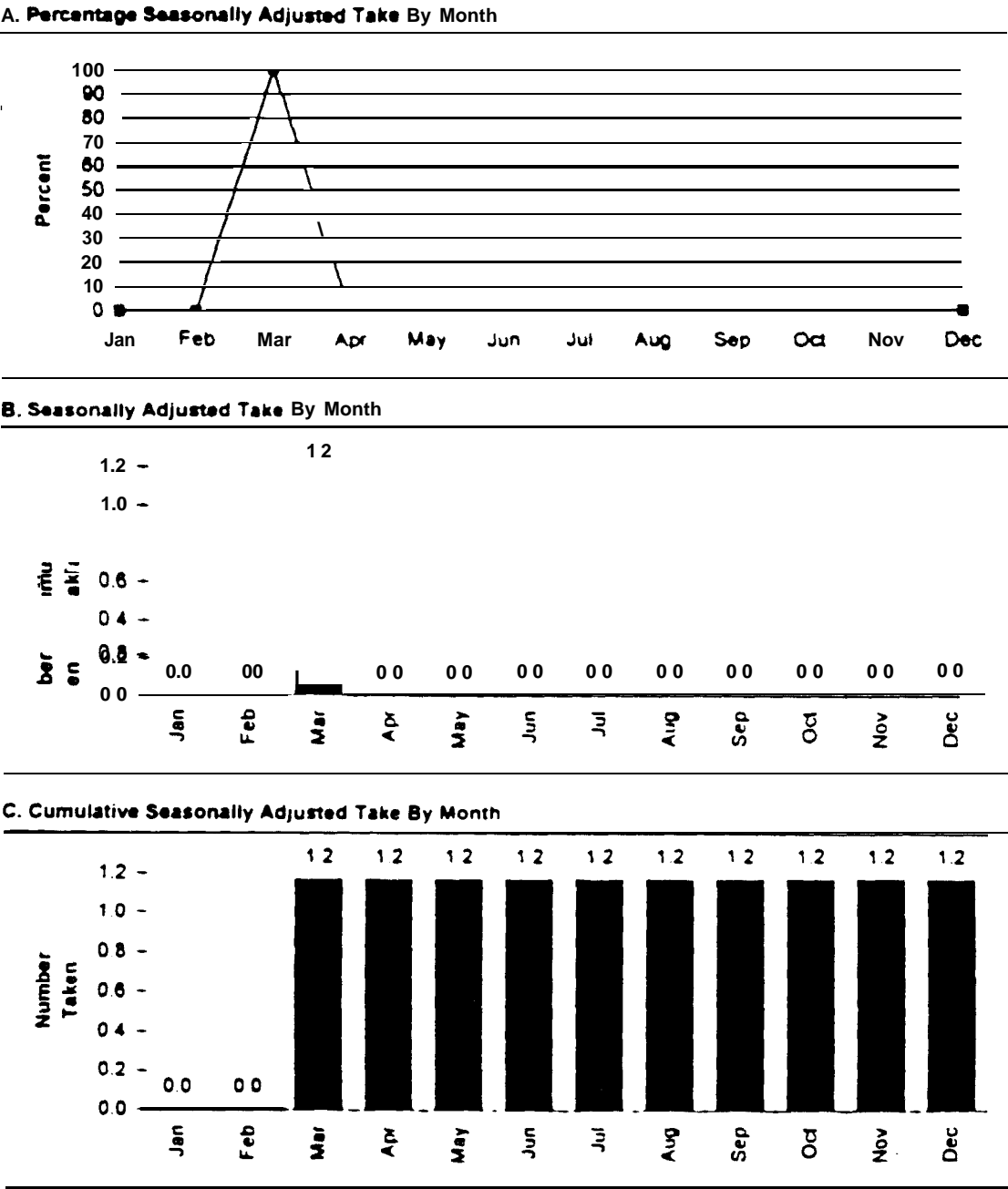
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	00%	00	00%
Adult Female	0	00%	00	00%
Adult Unknown Sex	0	00%	00	00%
Juvenile Male	0	00%	00	00%
Juvenile Female	11	100%	12	100%
Juvenile Unknown Sex	0	00%	00	00%
Pup Male	0	00%	00	00%
Pup Female	0	00%	00	00%
Pup Unknown Sex	0	00%	00	00%
Male Unknown Age	0	00%	00	00%
Female Unknown Age	0	00%	00	00%
Unknown Sex and Age	0	00%	00	00%
Total	1	100.0%	12	100.0%

SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belotary Village Council, and City of King Cove, 1994.

FIGURE 79. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KING COVE, 1983



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belotary Village Council, and City of King Cove, 1984

TABLE 80. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KING COVE, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	14	103	117
Surveyed Households	12	26	38
Sampling Fraction	85.7%	25.2%	32.5%
Sample Household Members	45	89	134
Estimated Household Members	52.5	352.6	4a5.1

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:		Estimated Community Harvest and Take (Expanded):	
Used	8.0%	Total Number Harvested	12.8
Hunted	8.0%	Total Number Struck and Lost	3.5
Harvested	7.0%	Total Number Taken	16.3
Received	6.0%	Number Harvested Per Capita	0.03
Gave Away	6.0%		

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	1	0	1	0	3	2	0	0	1	0	11
Struck and Lost	0	0	0	0	0	0	0	1	1	1	0	0	0	3
Total Take	0	2	1	1	0	1	0	4	3	1	0	1	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.3	1.2	1.2	0.0	1.2	0.0	3.5	2.3	0.0	0.0	1.2	0.0	12.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0	0.0	3.5
Total Take	0.0	2.3	1.2	1.2	0.0	1.2	0.0	4.7	3.5	1.2	0.0	1.2	0.0	16.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.3	1.2	1.2	0.0	1.2	0.0	3.5	2.3	0.0	0.0	1.2		12.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0	0.0		3.5
Total Take	0.0	2.3	1.2	1.2	0.0	1.2	0.0	4.7	3.5	1.2	0.0	1.2		16.3
Total Take (%)	0.0%	14.3%	7.1%	7.1%	0.0%	7.1%	0.0%	28.6%	21.4%	7.1%	om	7.1%		100%
Cumulative Take	0.0	2.3	3.5	4.7	4.7	5.8	5.8	10.5	14.0	15.2	15.2	16.3		
Cum Take RI	0.08	14.3%	21.4%	28.6%	28.6%	35.7%	35.7%	64.3%	85.7%	92.9%	92.9%	100.0%		

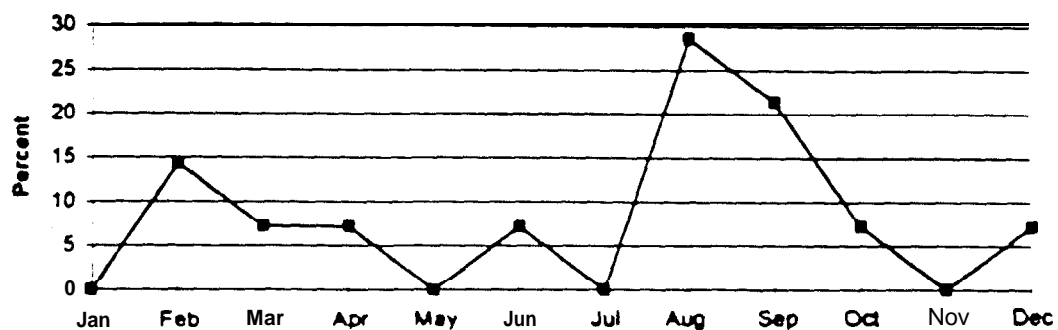
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	83.8%	9.2	83.8%
Adult Female	1	9.1%	1.2	9.1%
Adult Unknown Sex	2	18.2%	2.3	18.2%
Juvenile Male	1	9.1%	1.2	9.1%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Mate Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	11	100%	12.8	100.0%

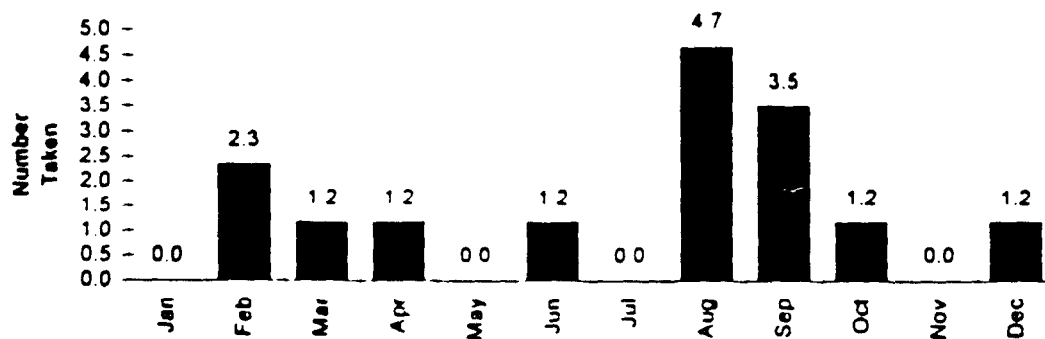
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Barter Village Council, and City of King Cove, 1994.

FIGURE 80. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KING COVE, 1993

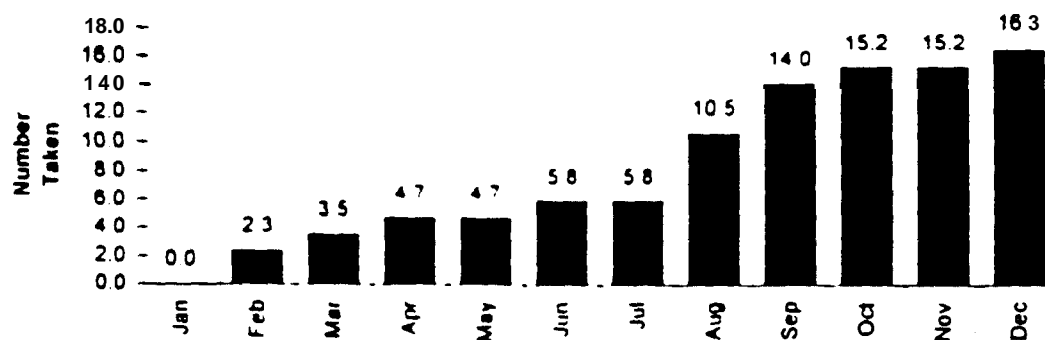
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdeagux Tribe of King Cove, Beaufort Village Council, and City of King Cove, 1994.

TABLE 81. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PERRYVILLE, 1993

SAMPLING DESIGN. CENSUS

Total Native Households	31
Surveyed Households	29
Sampling Fraction	93.5%
Sample Household Members	107
Estimated Household Members	114.4

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
Used 89%	Total Number Harvested 0.0
Hunted 89%	Total Number Struck and Lost 0.0
Harvested 00%	Total Number Taken 0.0
Received 89%	Number Harvested Per Capita 0.00
Gave Away 00%	

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	47	May	Jun	Jul	4	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED):														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
Struck and Lost	00	00	00	00	00	00	03	00	00	00	00	00	00	0.0
Total Take	00	00	00	00	00	00	00	00	00	00	00	00	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED):														
Harvest	00	00	00	00	00	00	00	00	00	00	00	00		00
Struck and Lost	00	00	00	00	00	00	00	00	00	00	00	00		0.0
Total Take	00	00	00	00	00	00	00	00	00	00	00	00		0.0
TOW TAKE RI														
Cumulative Take	00	0.0	00	00	00	00	00	00	00	00	00	00		
Cum Take (%)	0m	0m	0m	0m	0.0%	0m	0m	0m	0m	0m	0m	0m		

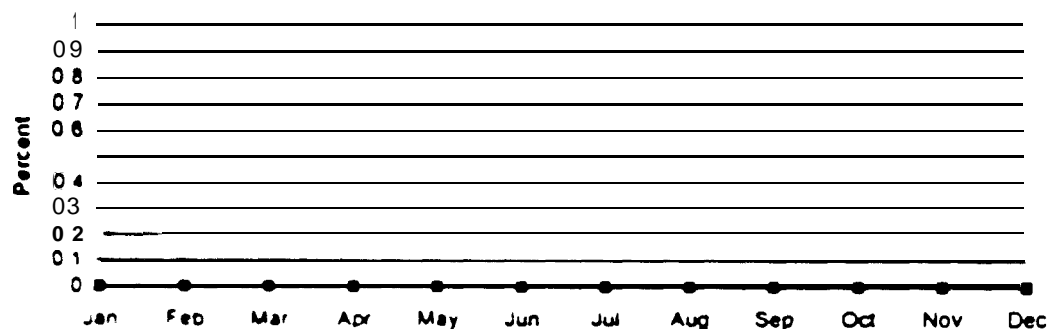
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	00	—
Adult Female	0	—	00	—
Adult Unknown Sex	0	—	00	—
Juvenile Male	0	—	00	—
Juvenile Female	0	—	00	—
Juvenile Unknown Sex	0	—	00	—
Pup Male	0	—	00	—
Pup Female	0	—	00	—
Pup Unknown Sex	0	—	00	—
Male Unknown Age	0	—	00	—
Female Unknown Age	0	—	00	—
Unknown Sex and Age	0	—	00	—
Total	0	—	00	—

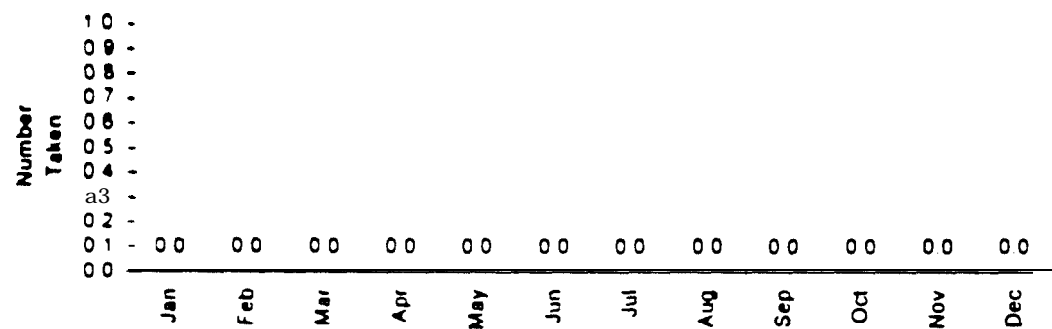
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1994.

FIGURE 81. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PERRYVILLE, 1993

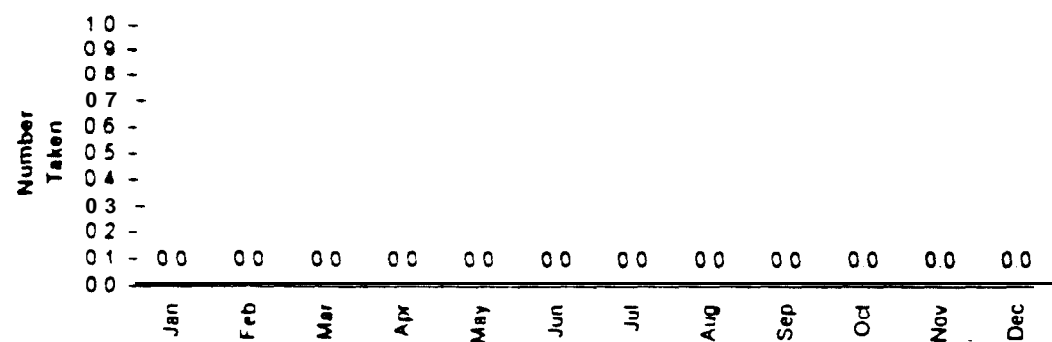
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council. 1994.

TABLE 82. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PERRYVILLE, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	31
Surveyed Households	29
Sampling Fraction	93.5%
Sample Household Members	107
Estimated Household Members	1144

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
Used 65.5%	Total Number Harvested 12.8
Hunted 51.7%	Total Number Struck and Lost 2.1
Harvested 17.2%	Total Number Taken 15.0
Received 85.5%	Number Harvested Per Capita 0.11
Gave Away 41.4%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	5	1	0	0	0	0	0	2		0	0	1	12
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Total Take	2	5	1	0	0	0	0	0	2		0	2	1	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	21	5.3	1.1	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	0.0	1.1	12.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1
Total Take	2.1	5.3	1.1	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	2.1	1.1	15.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	5.8	1.2	0.0	0.0	0.0	0.0	0.0	2.3	1.2	0.0	0.0		12.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1		2.1
Total Take	2.3	5.8	1.2	0.0	0.0	0.0	0.0	0.0	2.3	1.2	0.0	2.1		15.0
Total Take (%)	15.6%	39.0%	7.8%	0.0%	0.0%	0.0%	0.0%	0.0%	15.6%	7.8%	0.0%	14.3%		100%
Cumulative Take	2.3	8.2	9.3	9.3	9.3	9.3	9.3	9.3	11.7	12.8	12.0	15.0		
Cum Take (%)	15.6%	54.5%	82.3%	82.3%	82.3%	82.3%	82.3%	82.3%	77.9%	85.7%	85.7%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

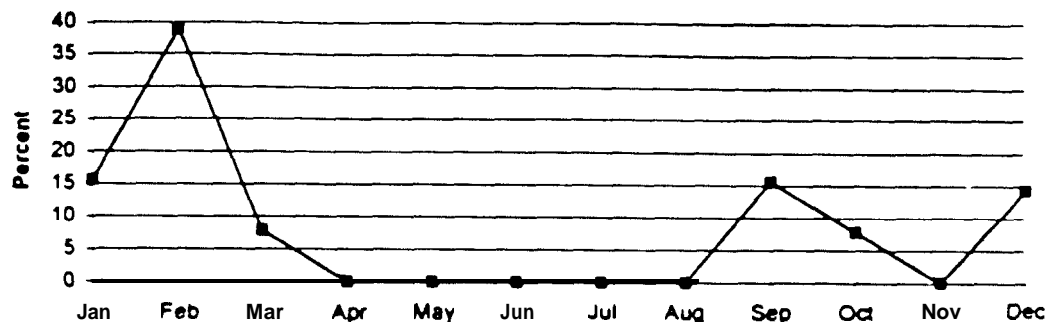
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	1	8.3%	11	8.3%
Adult Female	1	8.3%	1.1	8.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	5	41.7%	5.3	41.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	33.3%	4.3	33.3%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	8.3%	1.1	8.3%
Total	12	100.0%	12.8	100.0%

SOURCE

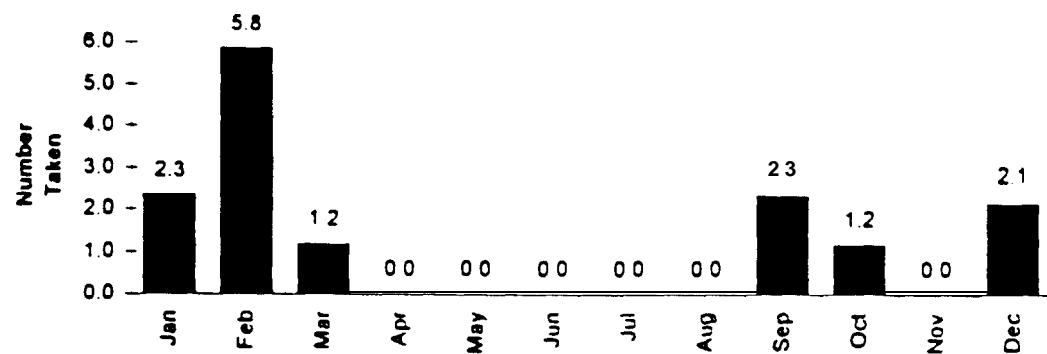
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1994.

FIGURE 82. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PERRYVILLE, 1993

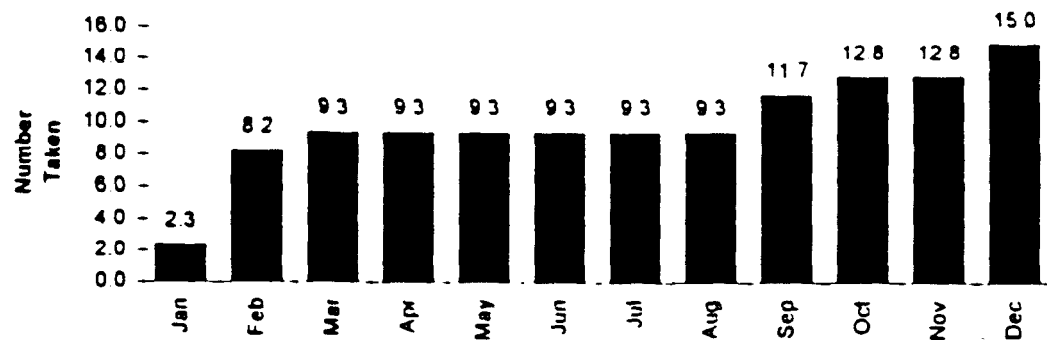
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1994.

TABLE 83. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAND POINT, 1993

SAMPLING DESIGN: TWO STRATA

	Active	other	Total
Total Native Households	14	129	143
Surveyed Households	12	30	42
Sampling Fraction	85.7%	23.3%	29.4%
Sample Household Members	50	93	143
Estimated Household Members	583	399	945

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded):
Used 0.0%	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.0%	Number Harvested Per Capita 0.00
Gave Away 0.0%	

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%

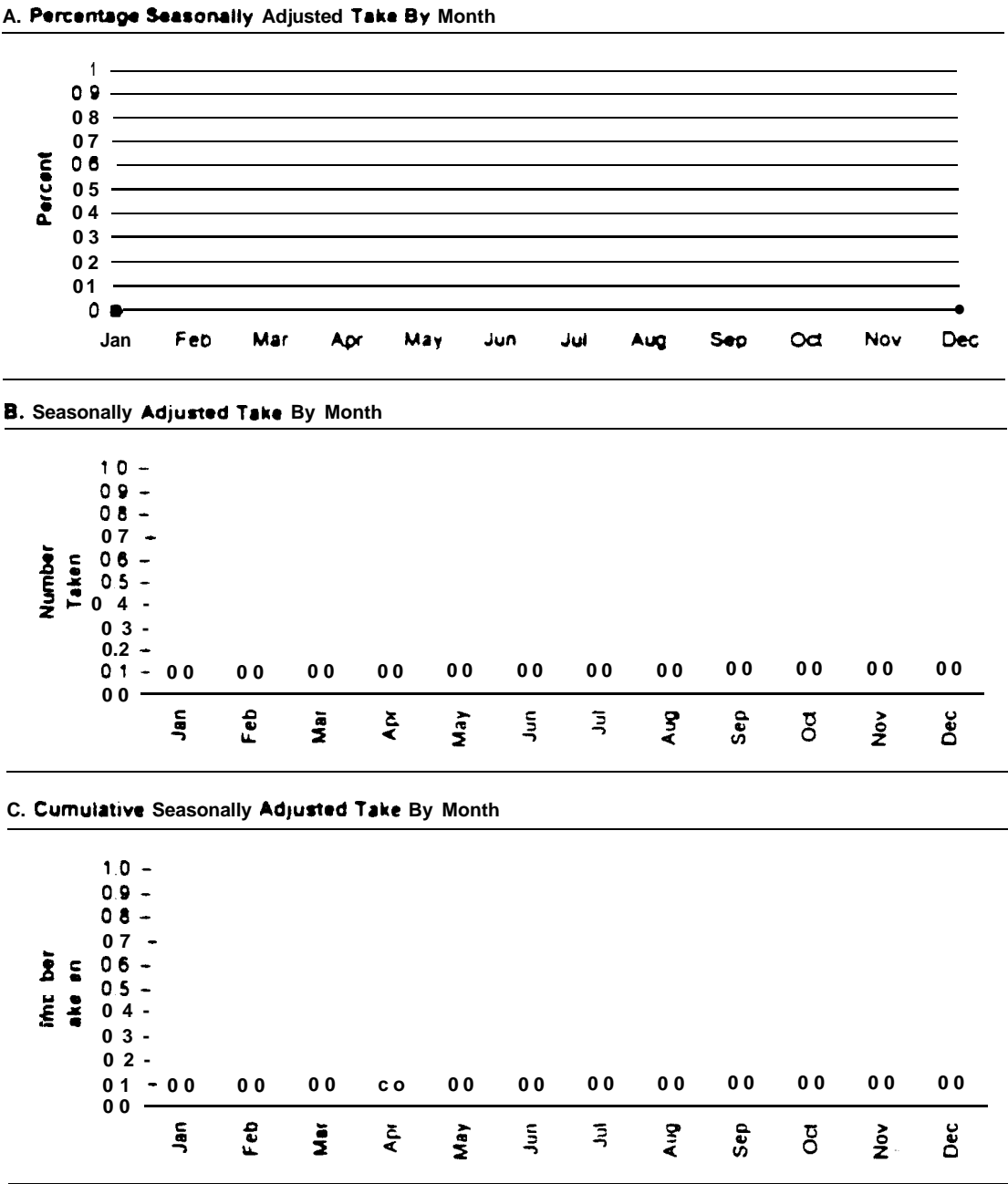
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE

Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Ogan Tayagungit Tribe of Sand Point, 1994.

FIGURE 83. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SAND POINT, 1993



SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Ojagan Teyegungit Tribe of Sand Point, 1994

TABLE 84. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAND POINT, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	14	129	143
Surveyed Households	12	30	42
Sampling Fraction	85.7%	23.3%	29.4%
Sample Household Members	50	93	143
Estimated Household Members	58.3	399.9	458.2

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households	Estimated Community Harvest and Take (Expanded)
Used 14.7%	Total Number Harvested 13.3
Hunted 0.3%	Total Number Struck and Lost 1.2
Harvested 0.3%	Total Number Taken 14.4
Received 6.3%	Number Harvested Per Capita 0.03
Gave Away 4.6%	

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED):															
Harvest	0	0	0	0	1	0	2	2	1	0	0	0	0	6	
Struck and Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Total Take	0	0	0	0	1	0	2	3		1	0	0	0	7	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	0.0	00	00	1.2	00	5.5	23	4.3	00	00	0.0	00	13.3	
Struck and Lost	00	0.0	00	00	00	00	00	1.2	00	00	00	0.0	0.0	1.2	
Total Take	00	00	00	00	1.2	00	5.5	3.5	4.3	00	00	0.0	00	14.4	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED):															
Harvest	00	00	00	00	1.2	00	5.5	23	4.3	00	0.0	00		13.3	
Struck and Lost	00	00	00	00	00	00	00	1.2	00	00	00	00		1.2	
Total Take	0.0	0.0	00	00	1.2	00	5.5	3.5	4.3	00	00	00		1.4	
Total Take Rt	0.08	0.0%	008	0.0%	8.1%	0.0%	37.9%	24.2%	29.8%	0.0%	0.0%	008		100%	
Cumulative Take	00	00	00	00	1.2	1.2	6.6	10	1	14.4	14.4	14.4	14.4		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	8.1%	8.1%	46.0%	70.2%	100.0%	100.0%	100.0%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

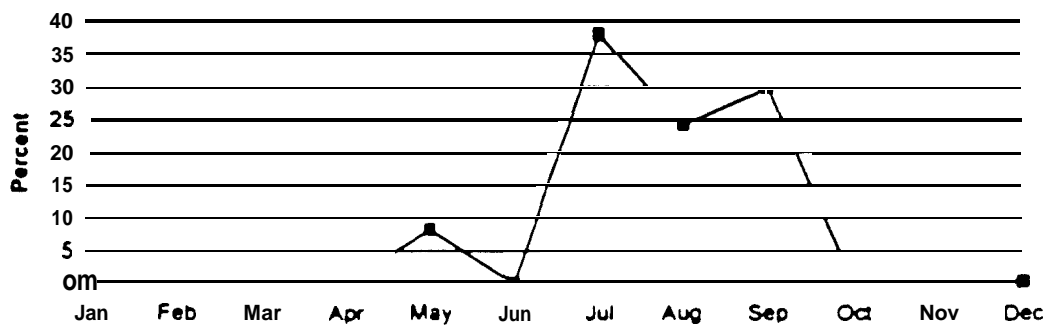
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	00	0.0%
Adult Female	0	0.0%	00	0.0%
Adult Unknown Sex	4	66.7%	7.8	58.6%
Juvenile Male	0	0.0%	00	0.0%
Juvenile Female	0	0.0%	00	0.0%
Juvenile Unknown Sex	0	0.0%	00	0.0%
Pup Male	0	0.0%	00	0.0%
Pup Female	0	0.0%	00	0.0%
Pup Unknown Sex	0	0.0%	00	0.0%
Male Unknown Age	0	0.0%	00	0.0%
Female Unknown Age	0	0.0%	00	0.0%
Unknown Sex and Age	2	33.3%	5.5	41.2%
Total	6	100.0%	13.3	100.0%

SOURCE

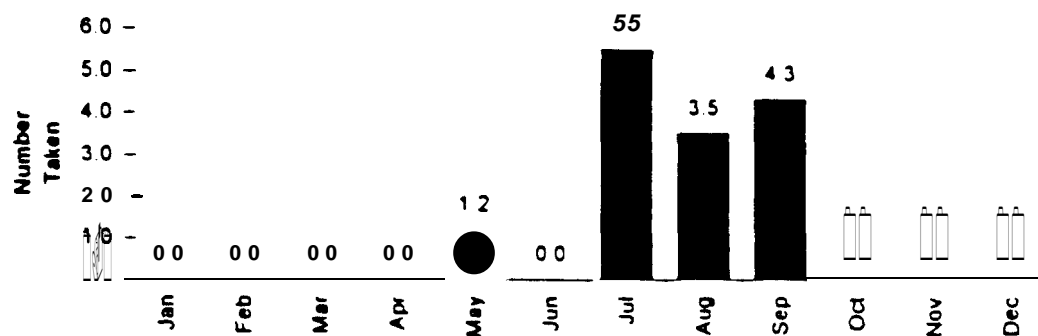
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oiaen Teyagungit Tribe of Sand Point, 1994.

FIGURE 84. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAND POINT, 1993

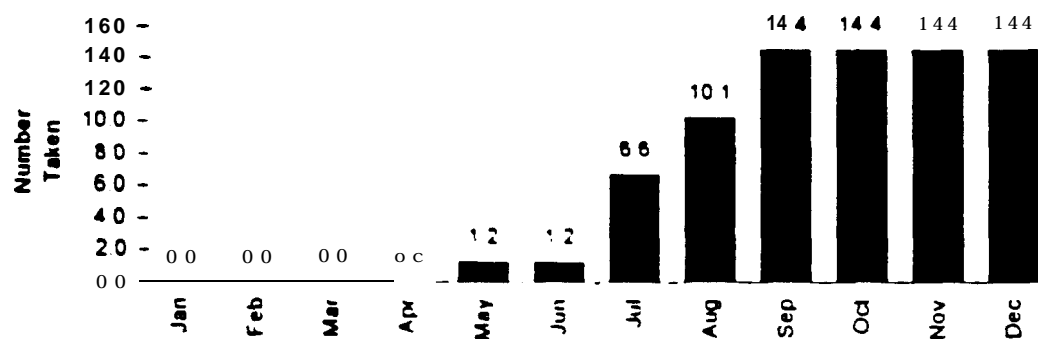
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oqoguk Teyegungu Tribe of Sand Point, 1994

ALEUTIANISLANDS

TABLE 88. SEA UON (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: AKUTAN, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	29
Surveyed Households	28
Sampling Fraction	89.7%
Sample Household Members	85
Estimated Household Members	94.8

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	88.5%
Hunted	30.8%
Harvested	23.1%
Received	84.8%
Gave Away	23.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	14.5
Total Number Struck and Lost	8.9
Total Number Taken	23.4
Number Harvested Per Capita	0.15

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	2	0	2	5	1	1	1	0	0	1	0	13
Struck and Lost	0	0	0	0	1	1	1	0	1	4	0	0	0	8
TOW Take	0	0	2	0	3	6	2	1	2	4	0	1	0	21
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.2	0.0	2.2	5.6	1.1	1.1	1.1	0.0	0.0	1.1	0.0	14.5
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	4.5	0.0	0.0	0.0	0.9
Total Take	0.0	0.0	2.2	0.0	3.3	6.7	2.2	1.1	2.2	4.5	0.0	1.1	0.0	23.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.2	0.0	2.2	5.6	1.1	1.1	1.1	0.0	0.0	1.1		14.5
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	4.5	0.0	0.0		0.9
Total Take	0.0	0.0	2.2	0.0	3.3	6.7	2.2	1.1	2.2	4.5	0.0	1.1		23.4
Total Take (X)	0.0%	0.0%	9.5%	0.0%	14.3%	28.6%	9.5%	4.8%	9.5%	19.1%	0.0%	4.8%		100%
Cumulative Take	0.0	0.0	2.2	2.2	5.6	12.3	14.5	15.6	17.8	22.3	22.3	23.4		
Cum. Take (%)	0.0%	0.0%	9.5%	9.5%	23.8%	52.4%	61.9%	66.7%	76.2%	95.2%	95.2%	100.0%		

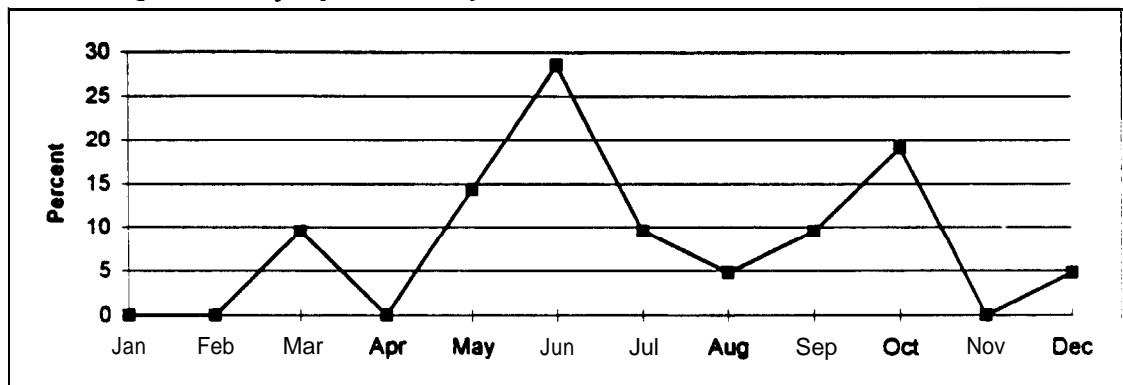
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	7	53.8%	7.8	53.8%
Adult Female	1	7.7%	1.1	7.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	15.4%	2.2	15.4%
Juvenile Female	2	15.4%	2.2	15.4%
Juvenile Unknown Sex	1	7.7%	1.1	7.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	13	100.0%	14.5	100.0%

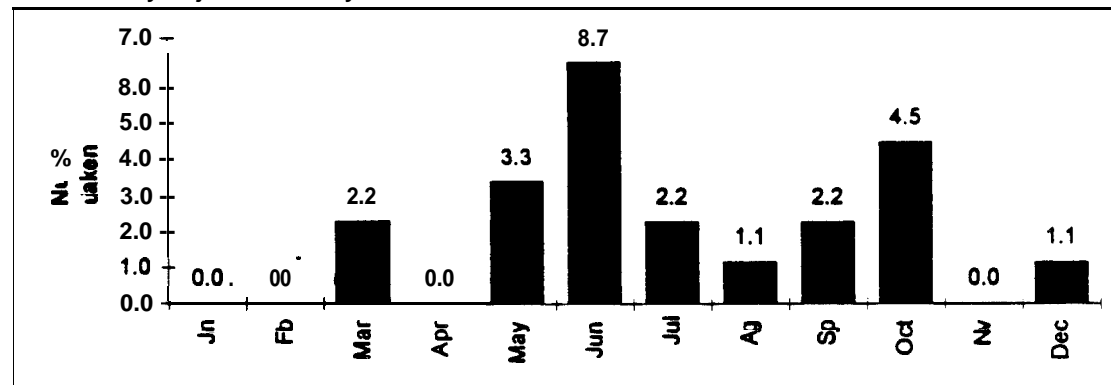
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1994.

FIGURE 85. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: AKUTAN, 1993

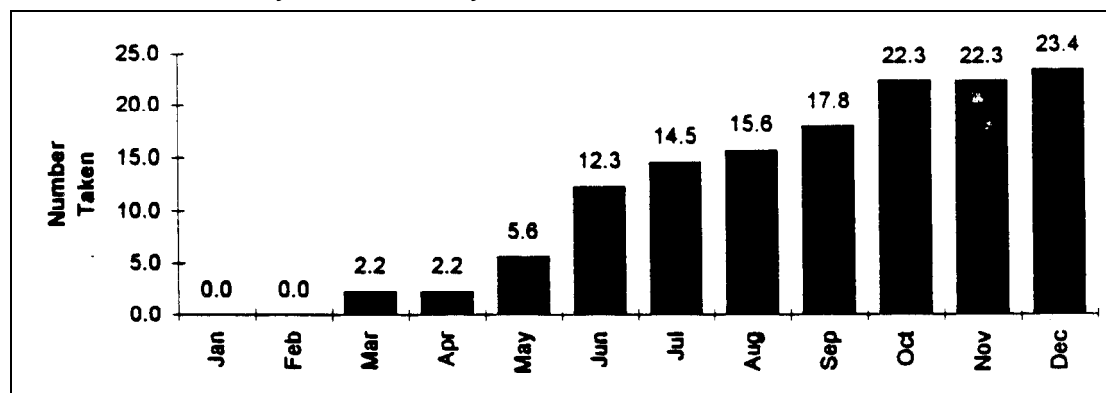
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akututan Corporation, 1994.

TABLE 89. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TARE ESTIMATES: AKUTAN, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	20
surveyed Households	28
Sampling Fraction	89.7%
Sample Household Members	85
Estimated Household Members	94.8

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	85.4%
Hunted	30.8%
Harvested	23.1%
Received	57.7%
Gave Away	23.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	15.8
Total Number Struck and Lost	<u>4.5</u>
Total Number Taken	20.1
Number Harvested Per Capita	0.18

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	3	5	1	1	1	0	1	1	0	14
Struck and Lost	0	0	0	0	0	0	1	1	0	1	0	1	0	4
Total Take	0	0	0	1	3	5	2	2	1	1	1	2	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	3.3	5.6	1.1	1.1	1.1	0.0	1.1	1.1	0.0	15.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.1	0.0	1.1	0.0	4.5
Total Take	0.0	0.0	0.0	1.1	3.3	5.6	2.2	2.2	1.1	1.1	1.1	2.2	0.0	20.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	3.3	5.6	1.1	1.1	1.1	0.0	1.1	1.1		15.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	1.1	0.0	1.1		4.5
Total Take	0.0	0.0	0.0	1.1	3.3	5.6	2.2	2.2	1.1	1.1	1.1	2.2		20.1
Total Take (%)	0.0%	0.0%	0.0%	5.6%	18.7%	27.8%	11.1%	11.1%	5.6%	5.6%	5.6%	11.1%		100%
Cumulative Take	0.0	0.0	0.0	1.1	4.5	10.0	12.3	14.5	15.6	16.7	17.0	20.1		
Cum. Take (%)	0.0%	0.0%	0.0%	5.6%	22.2%	50.0%	61.1%	72.2%	77.8%	63.3%	88.9%	100.0%		

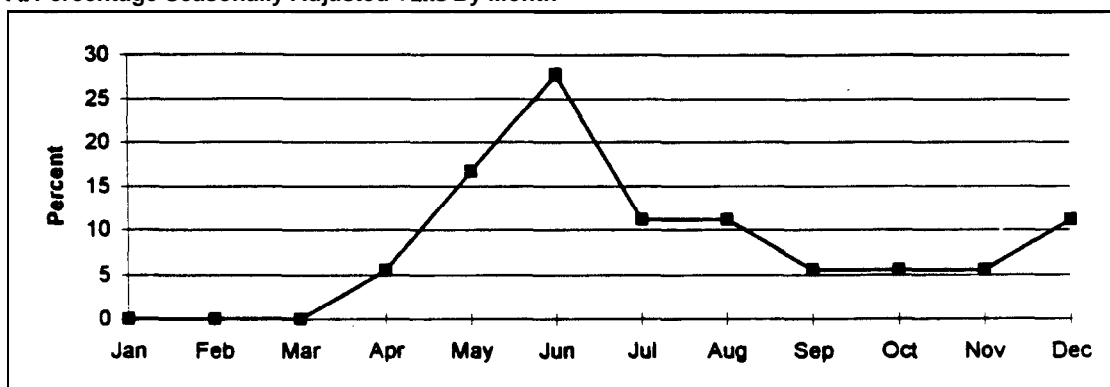
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	50.0%	7.8	50.0%
Adult Female	2	14.3%	2.2	14.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	4	28.8%	4.5	28.8%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	7.1%	1.1	7.1%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	14	100.0%	15.8	100.0%

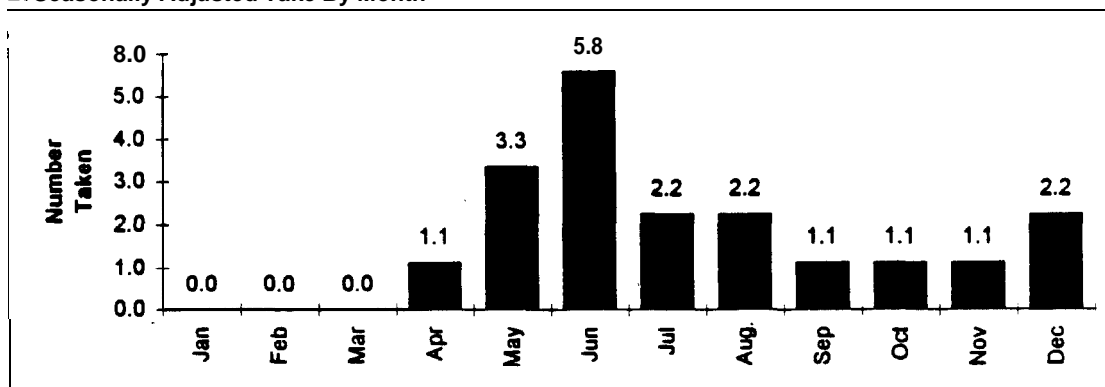
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akututan Corporation, 1994.

FIGURE 86. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: AKUTAN, 1993

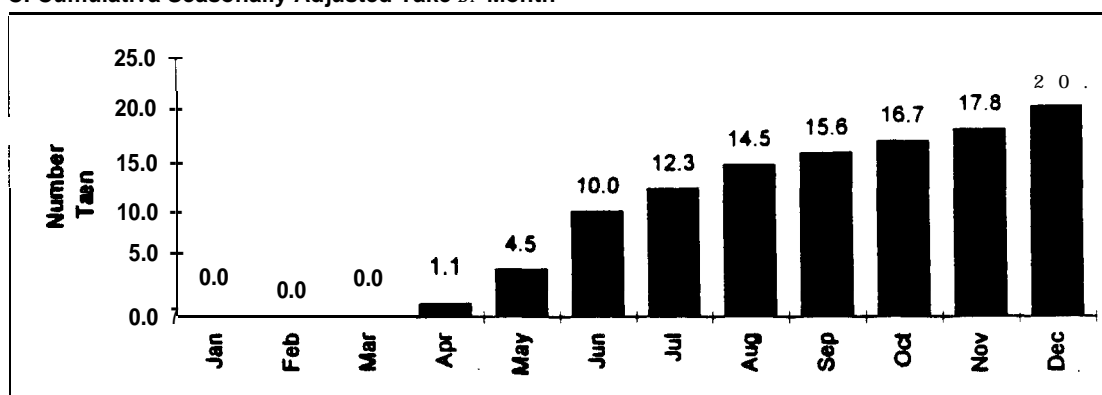
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akututan Corporation, 1994.

TABLE 87. SEA LION (*Eumetopias jubatus*) HARVEST AND TARE ESTIMATES: ATKA, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	24
suweyed Households	22
Sampling Fraction	91.7%
Sample Household Members	60
Estimated Household Members	65.5

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	86.4%
Hunted	40.9%
Harvested	39.4%
Received	68.2%
Gave Away	45.5%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	25.1
Total Number Struck and Lost	0.0
Total Number Taken	25.1
Number Harvested Per Capita	0.38

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	0	0	0	0	0	1	3	3	7	2	5	23
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	0	0	0	0	1	3	3	7	2	5	23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	3.3	7.6	2.2	5.5	25.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	3.3	7.6	2.2	5.5	26.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2	9.8	2.0		26.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2	9.8	2.8		26.1
Total Take (%)	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	16.7%	16.7%	38.9%	11.1%		100%
Cumulative Take	2.8	2.8	2.8	2.11	2.8		2.8	4.2	8.4	12.5	22.3	26.1		
Cum. Take (%)	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	16.7%	33.3%	50.0%	88.9%	100.0%		

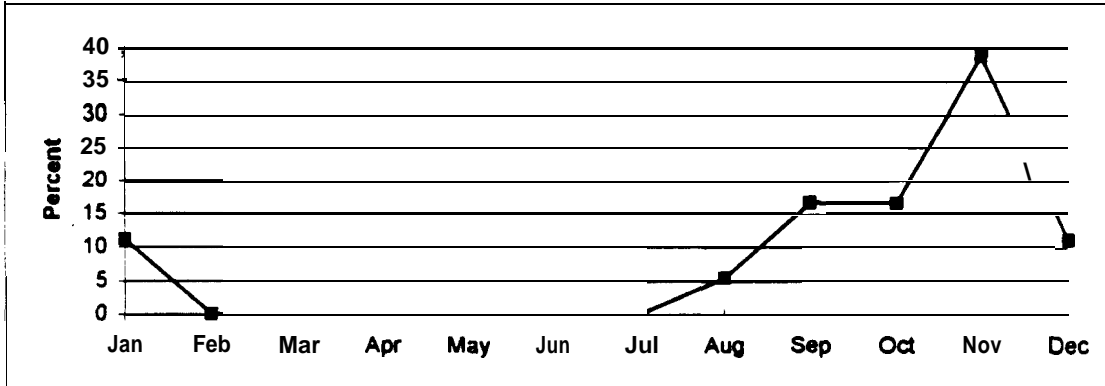
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	17.4%	4.4	17.4%
Adult Female	10	43.5%	10.9	43.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	8.7%	2.2	8.7%
Juvenile Female	2	0.7%	2.2	8.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	5	21.7%	5.5	21.7%
Total	23	100.0%	25.1	100.0%

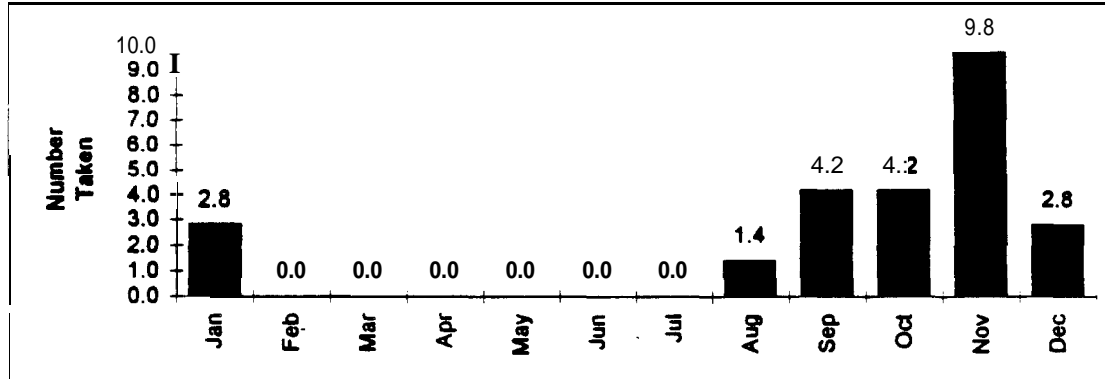
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

FIGURE 87. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ATKA, 1993

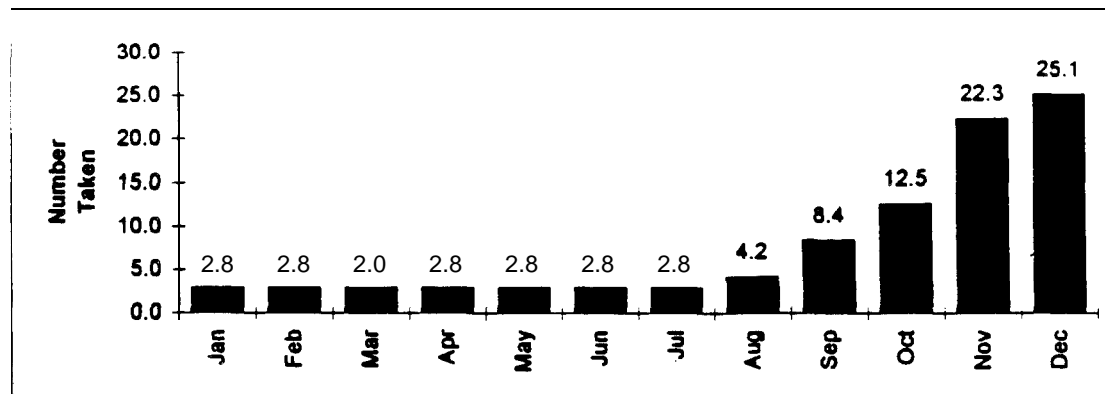
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

TABLE 99. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ATKA, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	24
Surveyed Households	22
Sampling Fraction	91.7%
Sample Household Members	60
Estimated Household Members	65.5

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used 77.3%
 Hunted 45.5%
 Harvested 31.8%
 Received 72.7%
 Gave Away 39.4%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 32.7
 Total Number Struck and Lost 0.0
 Total Number Taken 32.7
 Number Harvested Per Capita 0.50

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	0	0	0	0	4	2	4	6	1	10	30
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	3	0	0	0	0	4	2	4	6	1	10	30
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.3	0.0	0.0	0.0	0.0	4.4	2.2	4.4	6.5	1.1	10.9	32.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	3.3	0.0	0.0	0.0	0.0	4.4	2.2	4.4	6.5	1.1	10.9	32.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	4.0	0.0	0.0	0.0	0.0	6.5	3.3	6.6	0.6	1.6		32.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	4.9	0.0	0.0	0.0	0.0	6.6	3.3	6.6	9.6	1.6		32.7
Total Take (%)	0.0%	0.0%	15.0%	0.0%	0.0%	0.0%	0.0%	20.0%	10.0%	20.0%	30.0%	5.0%		100%
Cumulative Take	0.0	0.0	4.9	4.9	4.9	4.9	4.9	11.5	14.7	21.3	31.1	32.7		
Cum. Take (%)	0.0%	0.0%	15.0%	16.0%	15.0%	16.0%	16.6%	36.0%	46.0%	65.0%	95.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

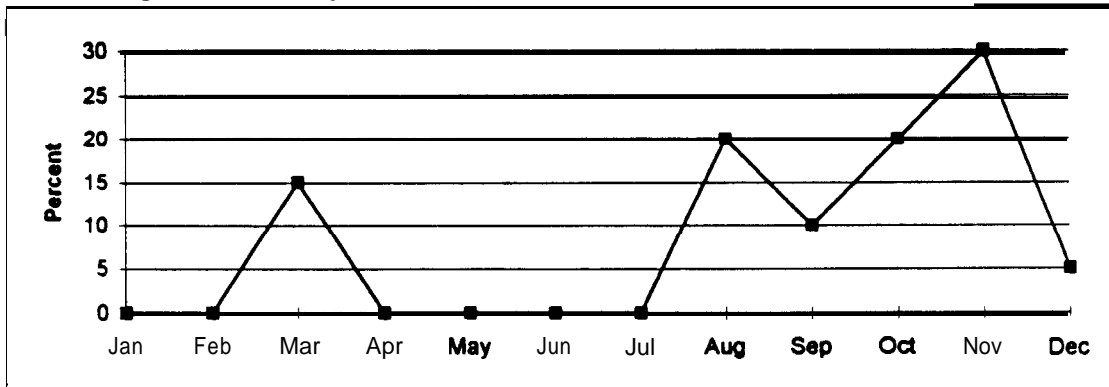
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	3.3%	1.1	3.3%
Adult Female	4	13.3%	4.4	13.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	8	26.7%	0.7	20.7%
Juvenile Female	2	6.7%	2.2	8.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	5	16.7%	5.5	16.7%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	10	33.3%	10.9	33.3%
total	30	100.0%	32.7	100.0%

SOURCE:

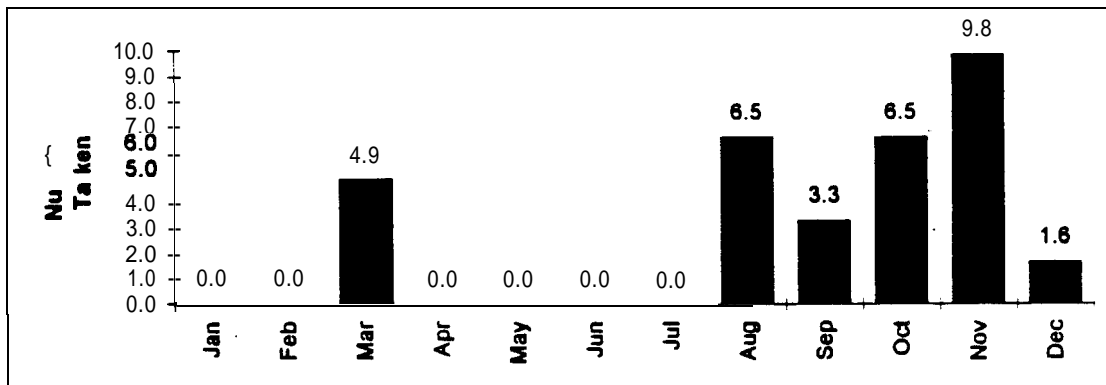
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

FIGURE 88. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ATKA, 1993

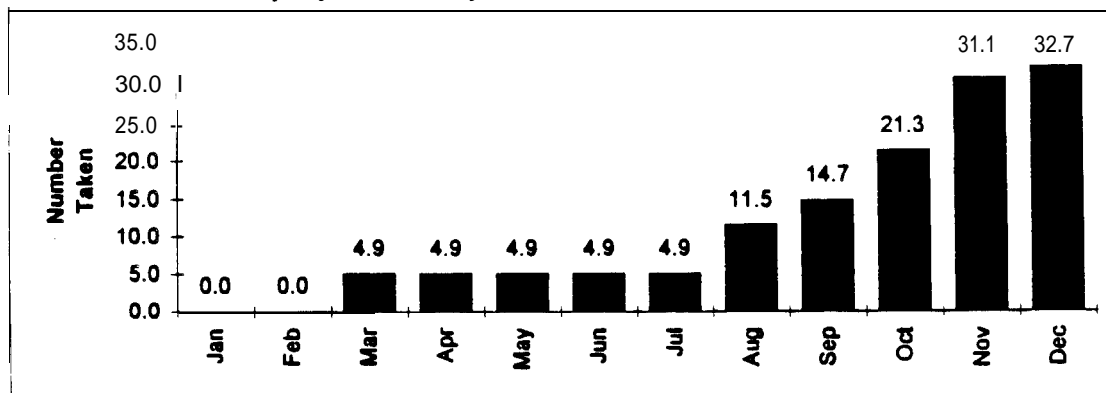
A. Percentage **Seasonally Adjusted** Take By Month



B. **Seasonally Adjusted** Take By Month



C. **Cumulative Seasonally Adjusted** Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1994.

TABLE 89. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NIKOLSKI, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	13
Surveyed Households	13
Sampling Fraction	100.0%
Sample Household Members	19
Estimated Household Members	19.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:
 used 100.0%
 Hunted 30.8%
 Harvested 23.1%
 Received 92.3%
 Gave Away 38.5%

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 6.0
 Total Number Struck and Lost 0.0
 Total Number Taken 6.0
 Number Harvested Per Capita 0.32

SEA LION HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	3	3	0	0	6	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	3	3	0	0	6	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0	0.0	6.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0	0.0	6.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0		6.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0		6.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.0%	50.0%	0.0%		100%	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	6.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%			

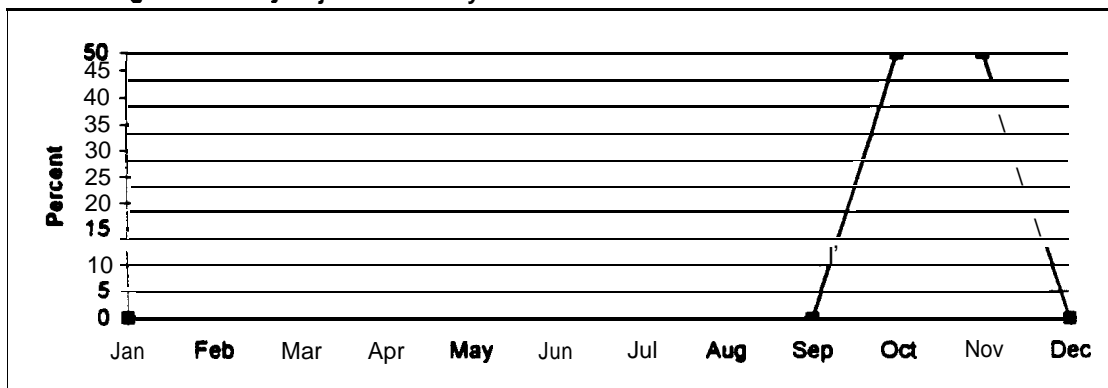
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	6	100.0%	6.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	6	100.0%	6.0	100.0%

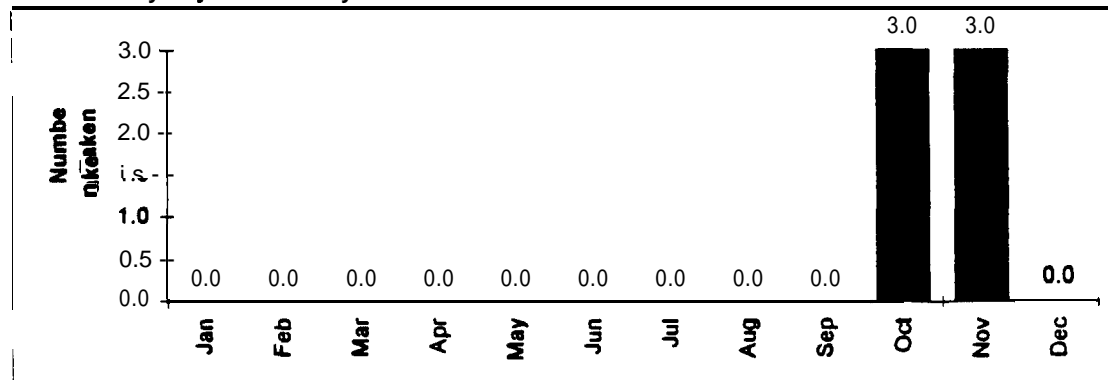
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

FIGURE 89. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NIKOLSKI, 1993

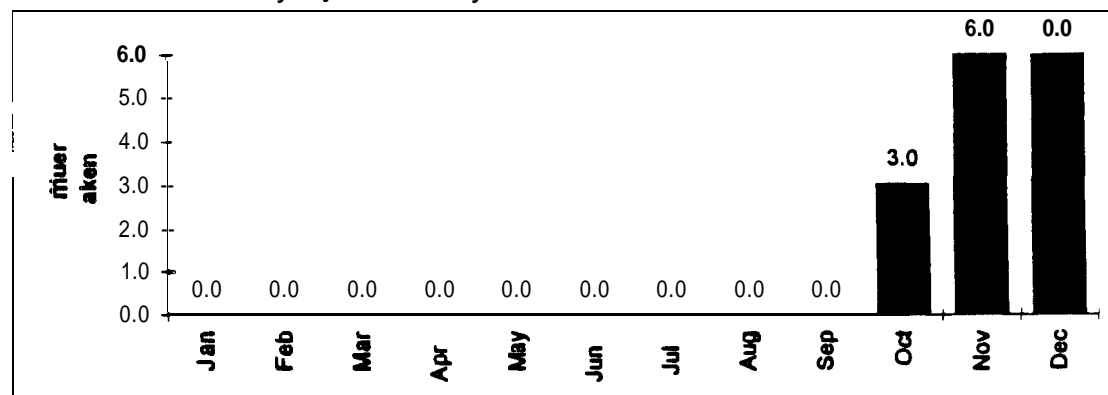
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

TABLE 90. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NIKOLSKI, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	13
Surveyed Households	13
Sampling Fraction	100.0%
Sample Household Members	19
Estimated Household Members	19.0

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used **38.5%**
 Hunted 23.1%
 Harvested 23.1%
 Received 15.4%
 Gave Away 30.8%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 4.0
 Total Number Struck and Lost 1 0
 Total Number Taken 5.0
 Number Harvested Per Capita 0.21

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	0	0	0	0	0	0	0	0	4	0	1	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	1.0	5.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0		4.0
Struck and Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.0
Total Take	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.1	0.1		5.0
Total Take (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	81.7%	1.7%		100%
Cumulative Take	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.6	0.8	4.9	5.0		
Cum. Take (%)	1.7%	3.3%	5.0%	6.7%	8.3%	10.0%	11.7%	13.3%	15.0%	16.7%	98.3%	100.0%		

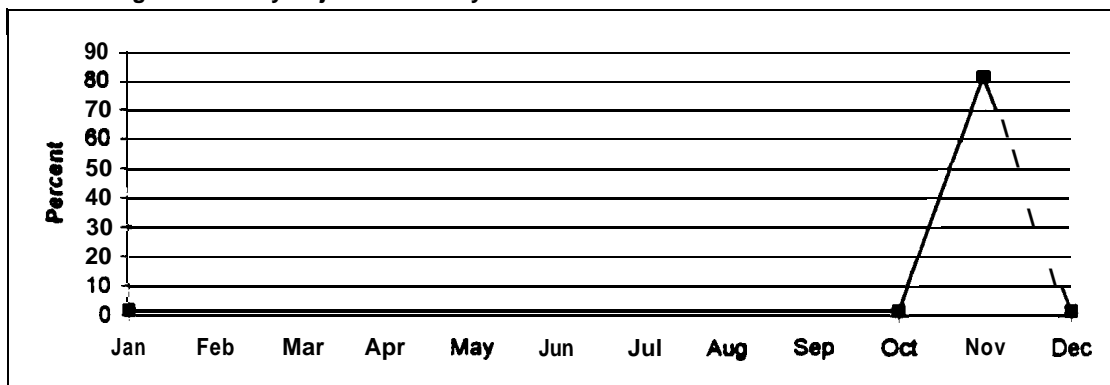
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	100.0%	4.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	<u>0</u>	<u>0.0%</u>	<u>0.0</u>	<u>0.0%</u>
Total	4	100.0%	4.0	100.0%

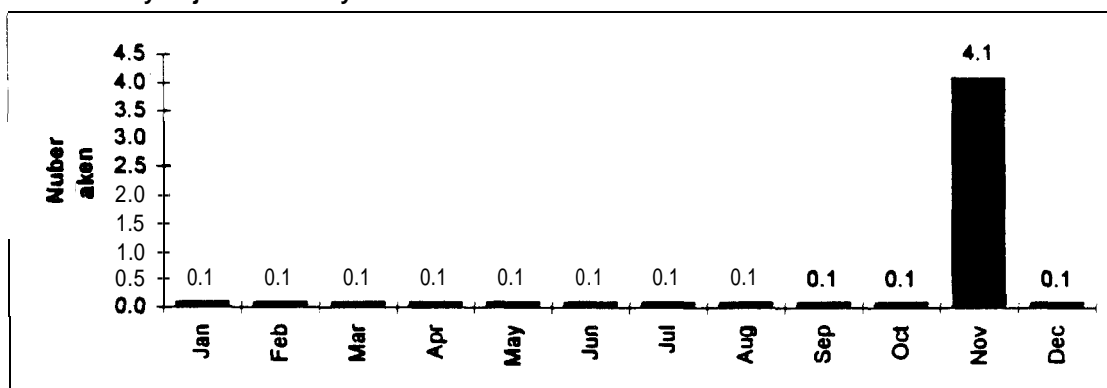
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1994.

FIGURE 90. HARBOR SEAL (*Phoca vitulina*) TAKE **ESTIMATES**: NIKOLSKI. 1993

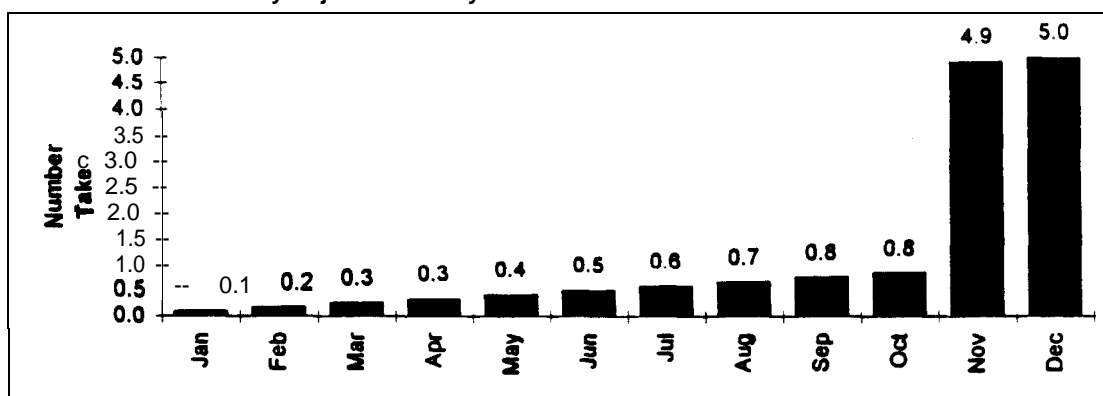
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IPA Council and Chaluka Corporation, 1994.

TABLE 91. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: UNALASKA, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	24	54	78
Surveyed Households	16	45	61
Sampling Fraction	66.7%	63.3%	78.2%
Sample Household Members	61	120	181
Estimated Household Members	91.5	144.0	235.5

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	100.0%
Hunted	30.4%
Harvested	22.7%
Received	96.2%
Gave Away	20.8%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	53.4
Total Number Struck and Lost	15.9
Total Number Taken	69.3
Number Harvested Per Capita	0.23

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	6	1	6	3	2	2	2	1	6	4	3	0	0	36
Struck and Lost	1	1	4	0	0	1	1	0	1	2	0	0	0	11
Total Take	7	2	10	3	2	3	3	1	7	6	3	0	0	47
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.0	1.5	9.0	4.2	3.0	3.0	3.0	1.5	0.7	6.0	4.5	0.0	0.0	53.4
Struck and Lost	1.5	1.5	6.7	0.0	0.0	1.5	1.5	0.0	1.5	2.7	0.0	0.0	0.0	15.9
Total Take	10.5	3.0	14.7	4.2	3.0	4.5	4.5	1.5	10.2	6.7	4.5	0.0	0.0	69.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.0	1.5	9.0	4.2	3.0	3.0	3.0	1.5	6.7	0.0	4.5	0.0		53.4
Struck and Lost	1.5	1.5	5.7	0.0	0.0	1.5	1.5	0.0	1.5	2.7	0.0	0.0		15.9
Total Take	10.5	3.0	14.7	4.2	3.0	4.5	4.5	1.5	10.2	6.7	4.5	0.0		69.3
Total Take (%)	15.2%	4.3%	21.2%	6.1%	4.3%	6.5%	6.5%	2.2%	14.7%	12.6%	6.5%	0.0%		100%
Cumulative Take	10.5	13.5	26.2	32.4	36.4	39.9	44.4	45.9	56.1	64.8	66.3	59.3		
Cum. Take (%)	15.2%	19.5%	40.7%	48.8%	51.1%	57.6%	64.1%	66.2%	81.0%	93.5%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

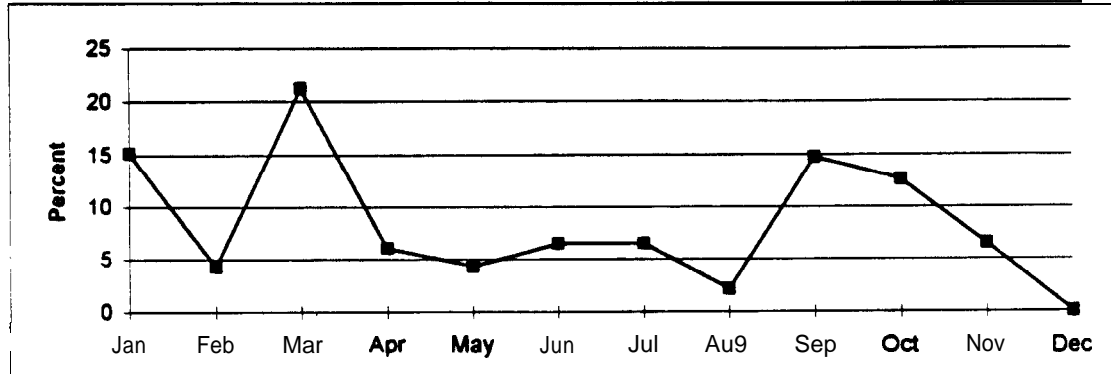
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	14	38.9%	20.7	38.8%
Adult Female	3	8.3%	4.5	8.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	7	19.4%	10.2	19.1%
Juvenile Female	6	16.7%	9.0	16.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	3	8.3%	4.5	8.4%
Pup Female	3	8.3%	4.5	8.4%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	36	100.0%	53.4	100.0%

SOURCE:

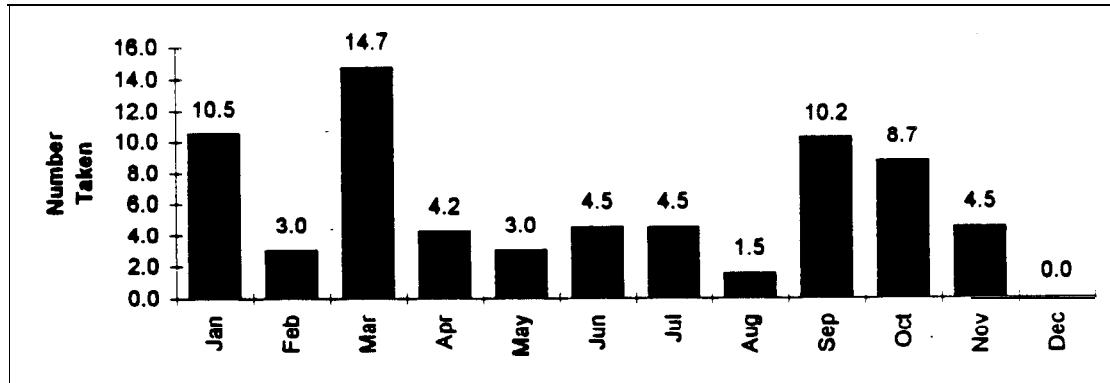
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1994.

FIGURE 91. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: UNALASKA, 1993

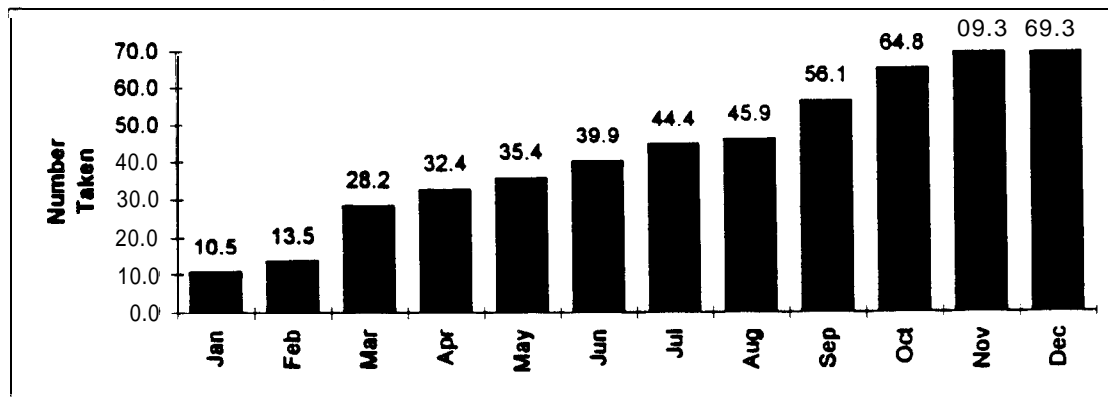
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawlangin Tribal Council, 1994.

TABLE 92. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: UNALASKA. 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	24	54	78
Surveyed Households	16	45	61
Sampling Fraction	99.7%	83.3%	78.2%
Sample Household Members	61	120	181
Estimated Household Members	91.5	144.0	235.5

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	93.8%
Hunted	33.8%
Harvested	22.7%
Received	90.0%
Gave Away	22.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	32.7
Total Number Struck and Lost	<u>9.9</u>
Total Number Taken	42.6
Number Harvested Per Capita	0.14

HARBOR SEAL HARVEST BY SEASON													Unknown		TOW
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	3	1	1	0	3	0	3	3	5	1	1	1	0	22	
Struck and Lost	0	1	0	1	0	0	0	3	2	0	0	0	0	7	
Total Take	3	2	1	1	3	0	3	6	7	1	1	1	0	29	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	4.5	1.5	1.5	0.0	4.5	0.0	4.5	4.5	1.2	1.5	1.5	1.5	0.0	32.7	
Struck and Lost	0.0	1.5	0.0	1.5	0.0	0.0	0.0	4.2	2.7	0.0	0.0	0.0	0.0	9.9	
Total Take	4.5	3.0	1.5	1.5	4.5	0.0	4.5	8.7	9.9	1.5	1.5	1.5	0.0	42.6	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	4.5	1.5	1.5	0.0	4.5	0.0	4.5	4.5	7.2	1.5	1.5	1.5		32.7	
Struck and Lost	0.0	1.5	0.0	1.5	0.0	0.0	0.0	4.2	2.7	0.0	0.0	0.0		9.9	
Total Take	4.5	3.0	1.5	1.5	4.5	0.0	4.5	8.7	9.9	1.5	1.5	1.5		42.6	
Total Take (%)	10.6%	7.0%	3.5%	3.5%	10.6%	0.0%	10.6%	20.4%	23.2%	3.5%	3.5%	3.5%		100%	
Cumulative Take	4.5	7.5	9.0	10.5	15.0	15.0	19.5	28.2	38.1	30.6	41.1	42.6			
Cum. Take (%)	10.6%	17.6%	21.1%	24.6%	35.2%	35.2%	46.6%	66.2%	8.4%	93.0%	96.5%	100.0%			

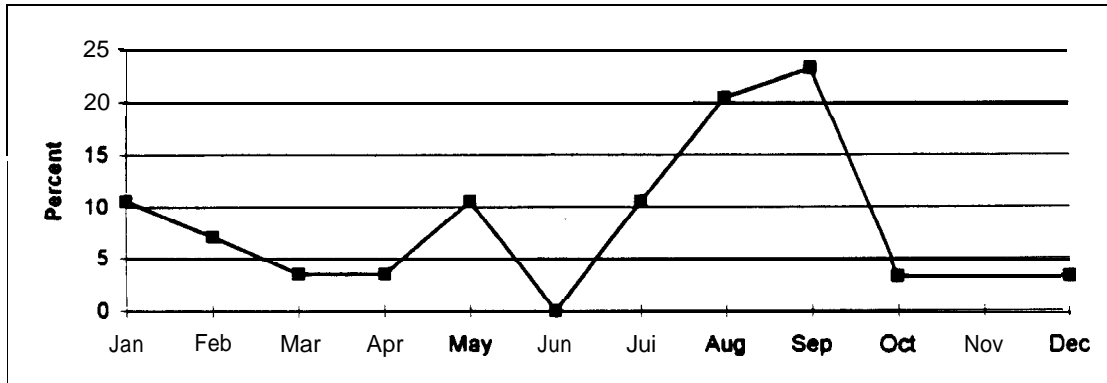
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	7	31.8%	10.5	32.1%
Adult Female	3	13.6%	4.5	13.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	5	22.7%	7.5	22.9%
Juvenile Female	4	18.2%	5.7	17.4%
Juvenile Unknown Sex	2	9.1%	3.0	9.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	1	4.5%	1.5	4.6%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	22	100.0%	32.7	100.0%

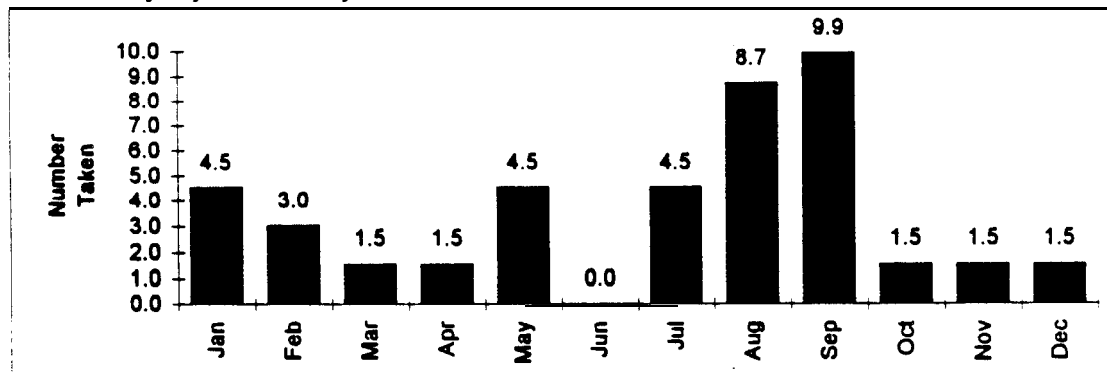
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Gwich'yaan Tribal Council, 1994.

FIGURE 92. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: UNALASKA, 1993

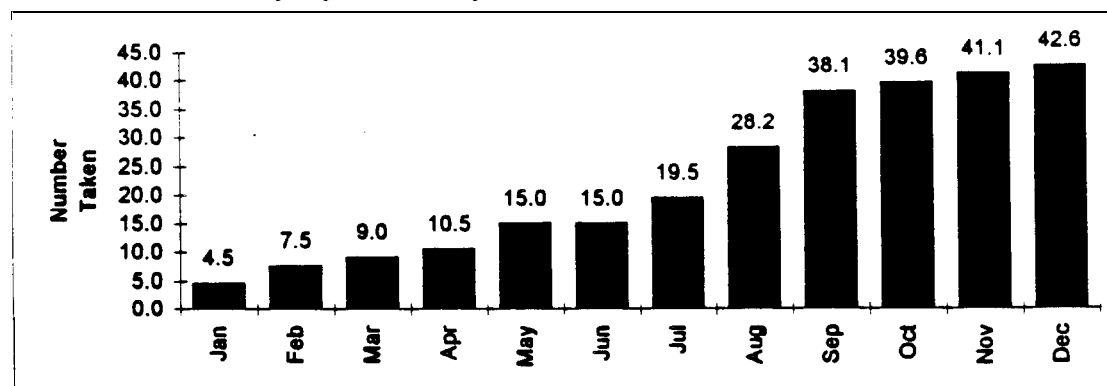
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Gwich'yaan Tribal Council, 1994.

PRIBILOF ISLANDS

TABLE 93. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAINT GEORGE, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	47
Surveyed Households	38
Sampling Fraction	80.9%
Sample Household Members	117
Estimated Household Members	144.7

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used 30.8%
 Hunted 10.4%
 Harvested 7.9%
 Received 31.6%
 Gave Away 10.5%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 3.7
 Total Number Struck and Lost 14.8
 Total Number Taken 18.6
 Number Harvested Per Capita 0.03

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	1	0	0	0	0	0	1	0	0	0	3
Struck and Lost	0	0	4	1	0	0	0	0	0	0	5	0	2	12
TOW Take	0	1	4	2	0	0	0	0	0	1	5	0	2	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.7
Struck and Lost	0.0	0.0	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	2.5	14.6
Total Take	0.0	1.2	4.9	2.5	0.0	0.0	0.0	0.0	0.0	1.2	6.2	0.0	2.5	18.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		3.7
Struck and Lost	0.0	0.0	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0		14.6
Total Take	0.0	1.2	6.9	2.7	0.0	0.0	0.0	0.0	0.0	1.2	7.4	0.0		16.6
Total Take (%)	0.0%	6.7%	32.0%	14.7%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	40.0%	0.0%	0.0%	100%
Cumulative Take	0.0	1.2	7.2	9.9	9.9	9.9	9.9	9.9	9.9	11.1	16.6	18.8		
Cum. Take (%)	0.0%	6.7%	38.7%	53.3%	53.3%	53.3%	53.3%	53.3%	53.3%	60.0%	100.0%	100.0%		

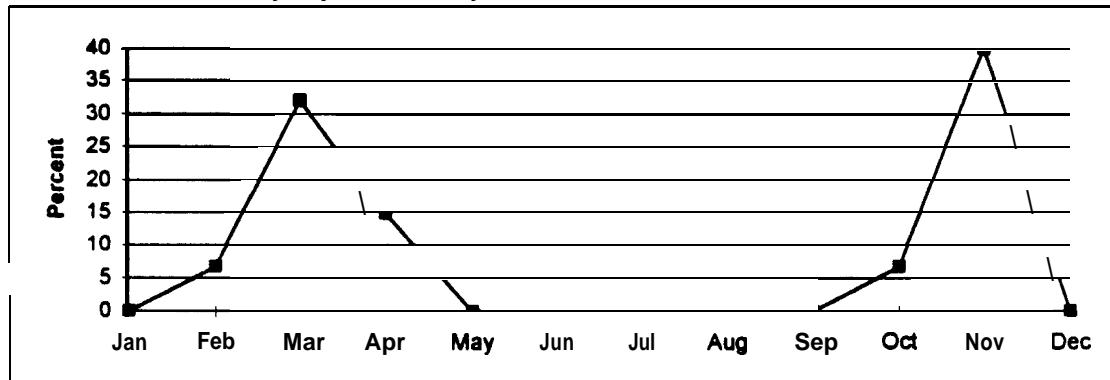
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	33.3%	1.2	33.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	33.3%	1.2	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	33.3%	1.2	33.3%
Total	3	100.0%	3.7	100.0%

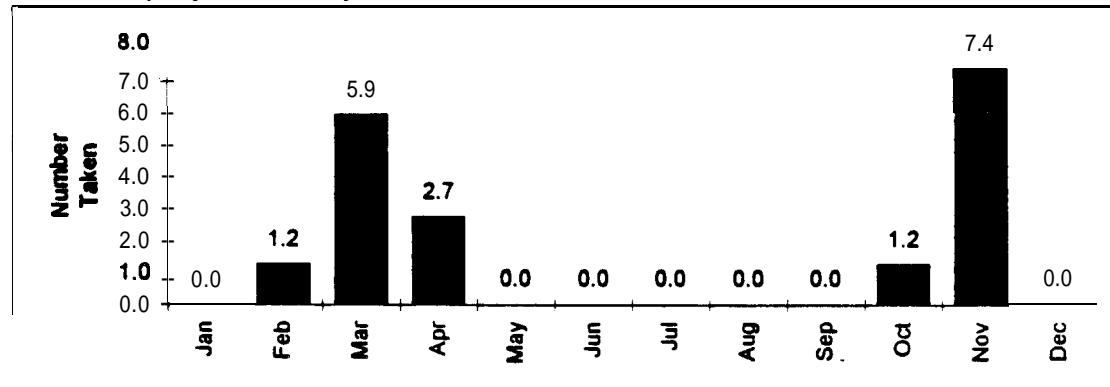
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

FIGURE 93. SEA LION (*Eumetopias jubatus*) TAKE **ESTIMATES**: SAINT GEORGE, 1993

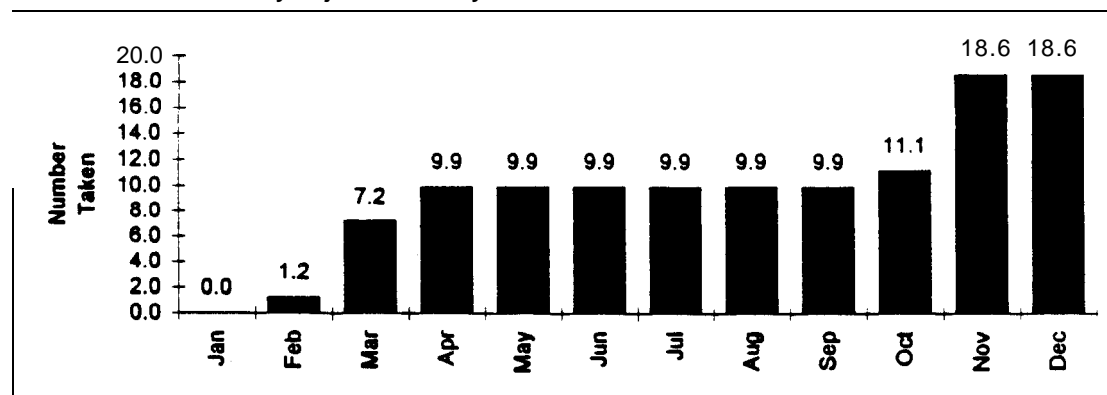
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

TABLE 94. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAINT GEORGE, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	47
Surveyed Households	36
Sampling Fraction	80.9%
Sample Household Members	117
Estimated Household Members	144.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):
used 0.0%	Total Number Harvested 0.0
Hunted 0.0%	Total Number Struck and Lost 0.0
Harvested 0.0%	Total Number Taken 0.0
Received 0.0%	Number Harvested Per Capita 0.00
Gave Away 0.0%	

HARBOR SEAL HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

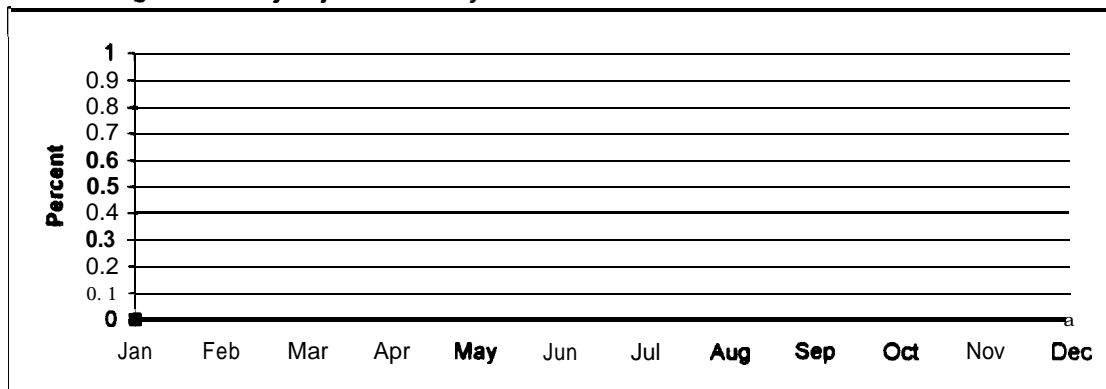
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

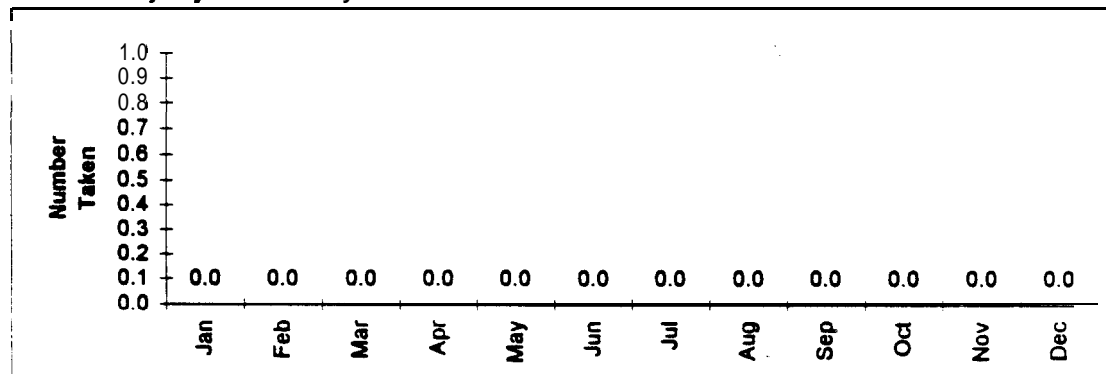
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

FIGURE 94. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAINT GEORGE, 1993

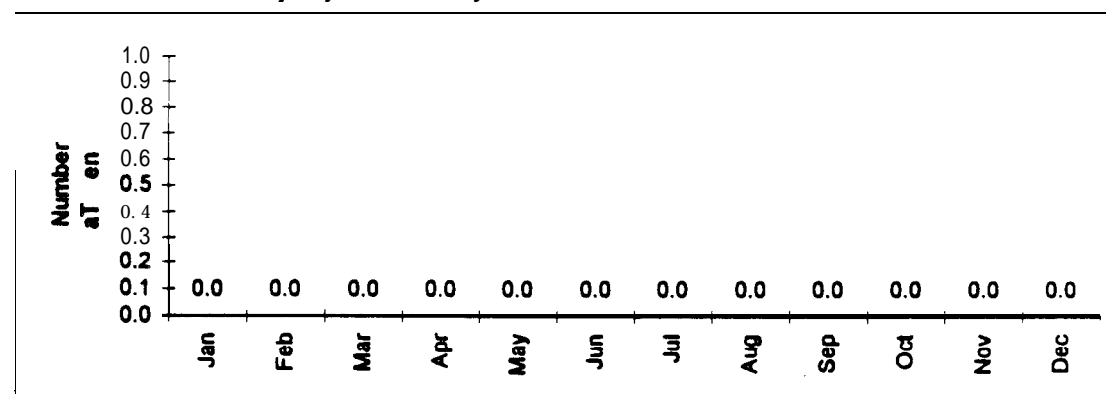
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1994.

TABLE 96. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: SAINT PAUL, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	61	70	131
Surveyed Households	53	31	84
Sampling Fraction	86.9%	44.3%	64.1%
Sample Household Members	231	117	346
Estimated Household Members	265.9	264.2	530.1

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	83.5%
Hunted	46.9%
Harvested	37.6%
Received	66.7%
Gave Away	40.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	161.7
Total Number Struck and Lost	65.2
Total Number Taken	226.8
Number Harvested Per Capita	0.31

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	5	7	6	6	0	0	3	23	19	7	7	40	127
Struck and Lost	3	3	3	0	1	0	0	0	4	8	7	1	17	47
Total Take	7	8	10	6	7	0	0	3	27	27	14	8	57	174
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.8	5.8	8.1	a 9	6.9	0.0	0.0	3.5	26.5	24.1	9.2	8.1	56.0	161.7
Struck and Lost	3.5	3.5	3.5	0.0	1.2	0.0	0.0	0.0	4.6	10.3	10.3	1.2	27.3	65.2
Total Take	10.3	9.2	11.5	6.9	8.1	0.0	0.0	3.5	31.1	34.4	19.4	9.2	83.3	226.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.4	a 8	12.3	10.6	10.6	0.0	0.0	5.3	40.5	36.8	14.0	12.3		161.7
Struck and Lost	5.0	a s	a s	0.0	2.0	0.0	0.0	0.0	7.9	17.8	17.7	2.0		65.2
Total Take	16.4	14.7	18.3	10.6	12.5	0.0	0.0	5.3	48.4	54.6	31.7	14.3		226.8
Total Take (%)	7.2%	6.5%	8.1%	4.7%	5.5%	0.0%	0.0%	2.3%	21.3%	24.1%	14.0%	6.3%		100%
Cumulative Take	16.4	31.1	49.4	60.0	72.5	72.5	72.5	77.8	128.2	180.8	212.5	226.8		
Cum. Take (%)	7.2%	13.7%	21.8%	26.4%	32.0%	32.0%	32.0%	34.3%	55.6%	79.7%	93.7%	100.0%		

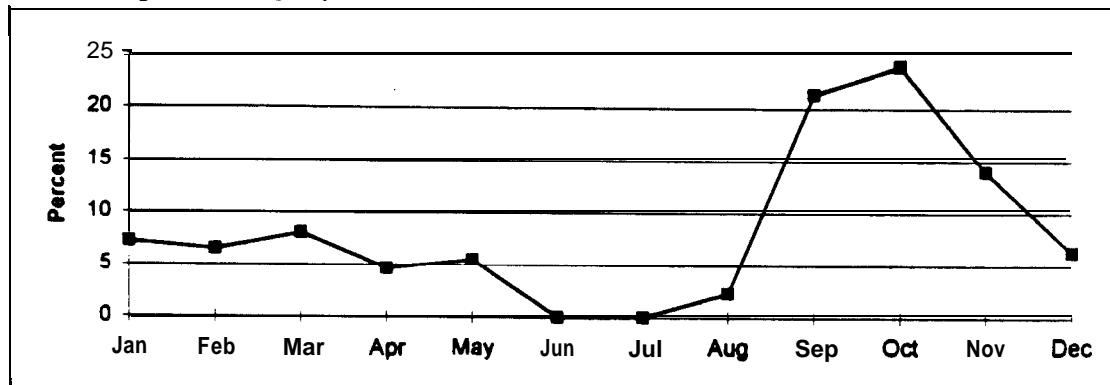
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	8	6.3%	9.2	5.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	82	64.6%	102.1	63.2%
Juvenile Female	1	0.8%	1.2	0.7%
Juvenile Unknown Sex	22	17.3%	33.1	20.5%
Pup Male	10	7.9%	11.5	7.1%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	3.1%	4.6	2.6%
Mole Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	127	100.0%	161.7	100.0%

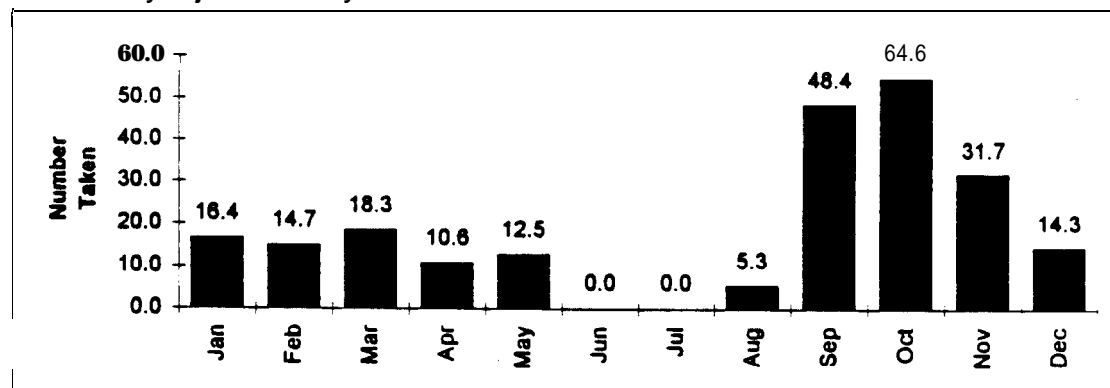
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

FIGURE 95. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SAINT PAUL, 1993

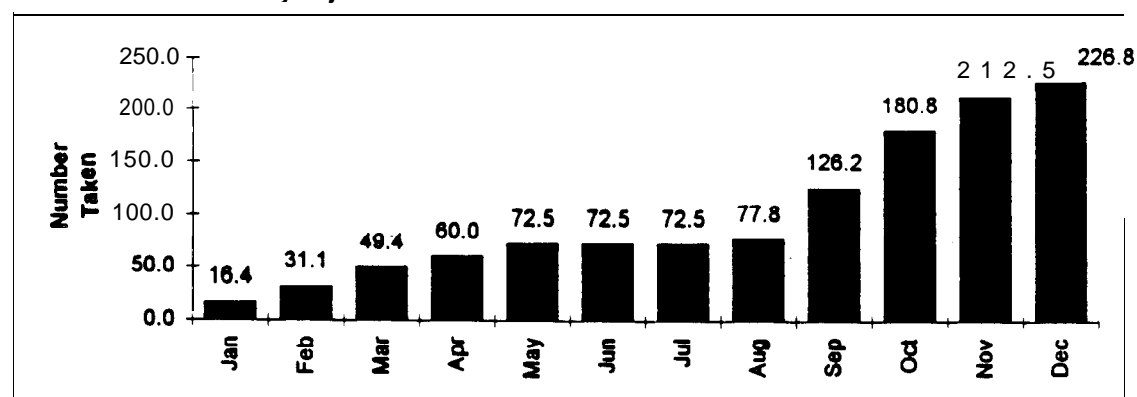
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

TABLE 96. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAINT PAUL, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	61	70	131
Surveyed Households	53	31	64
Sampling Fraction	66.9%	44.3%	64.1%
Sample Household Members	231	117	346
Estimated Household Members	265.9	264.2	530.1

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	6.1%
Hunted	3.5%
Harvested	1.6%
Received	4.4%
Gave Away	3.5%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	2.3
Total Number Struck and Lost	<u>1.2</u>
Total Number Taken	3.5
Number Harvested Per Capita	0.00

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Struck and lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	1	0	1	0	0	0	0	0	0	0	1	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.3
Struck and Lost	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2		2.3
Struck and Lost	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2		3.1
Total Take (%)	0.0%	33.3%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%		100%
Cumulative Take	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5		
Cum. Take (%)	0.0%	33.3%	33.3%	86.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

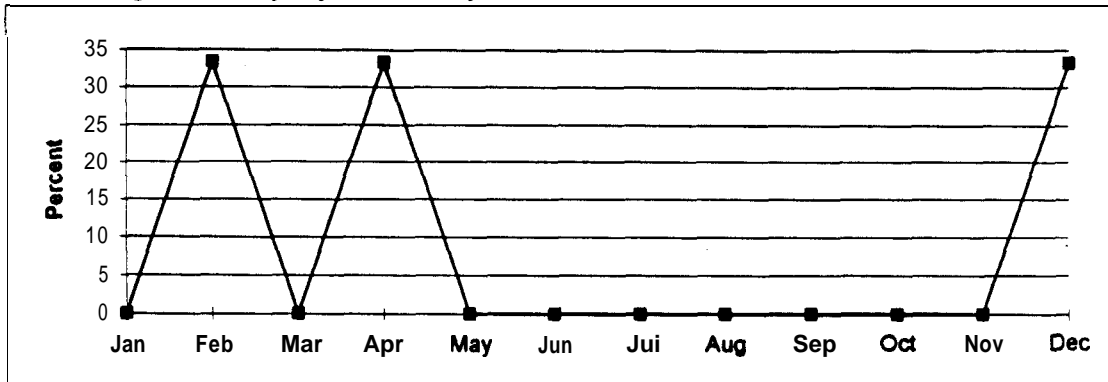
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	50.0%	1.2	50.0%
Juvenile Male	1	50.0%	1.2	50.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	<u>0</u>	<u>0.0%</u>	<u>0.0</u>	<u>0.0%</u>
Total	2	100.0%	2.3	100.0%

SOURCE:

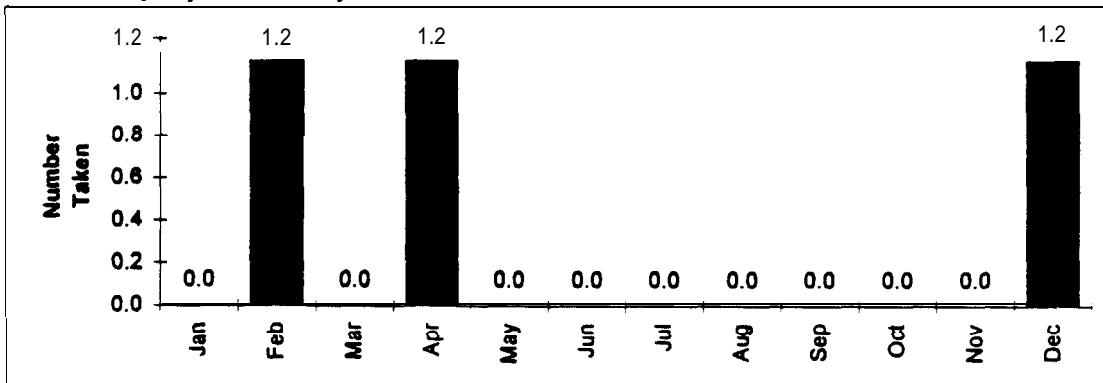
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

FIGURE 96. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAINT PAUL, 1993

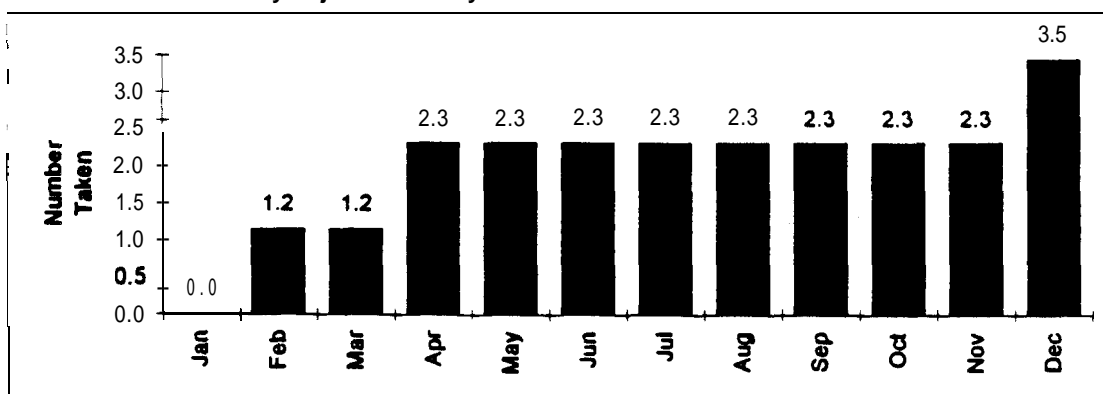
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1994.

SOUTH BRISTOL BAY

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TABLE 97. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: EGEGIK. 1993

SAMPLING DESIGN: CENSUS

Total Native Households	U
Surveyed Households	40
Sampling Fraction	90.9%
Sample Household Members	106
Estimated Household Members	116.6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:
 used 0.0%
 Hunted 0.0%
 Harvested 0.0%
 Received 0.0%
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

SEA LION HARVEST BY AGE AND SEX

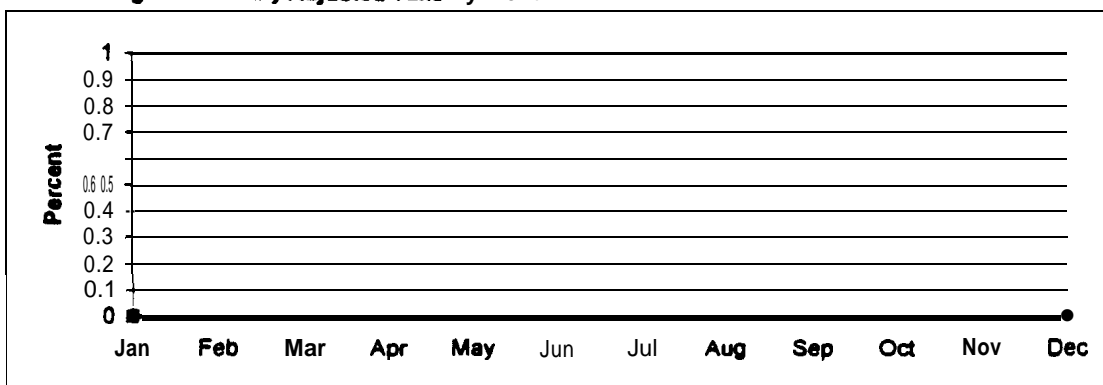
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

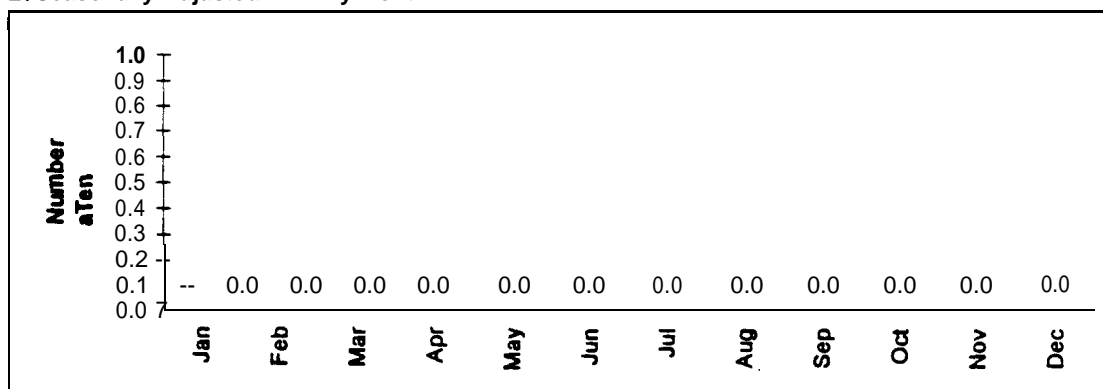
Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1994.

FIGURE 97. SEA LION (*Eumodopias jubatus*) TAKE **ESTIMATES**: EGEGIK. 1993

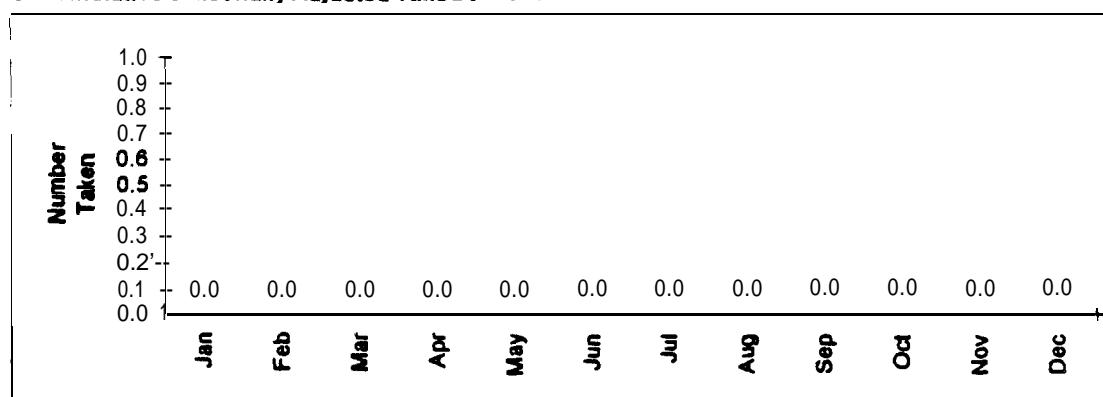
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1994.

TABLE 98. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: EGEGIK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	U
Surveyed Households	40
Sampling Fraction	90.9%
Sample Household Members	108
Estimated Household Members	118.6

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	30.0%
Hunted	17.5%
Harvested	7.5%
Received	30.0%
Gave Away	12.5%

Estimated Community Harvest and Take (Expended):

Total Number Harvested	7.7
Total Number Struck and Lost	3.3
Total Number Taken	11.0
Number Harvested Per Capita	0.07

HARBOR SEAL HARVEST BY SEASON														Unknown	TOW
	Jan	Feb	Mm	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	2	5	0	0	0	0	0	7	
Struck and Lost	0	0	0	0	0	0	1	0	1	0	0	0	1	3	
Total Take	0	0	0	0	0	0	3	5	1	0	0	0	1	10	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	0.0	0.0	0.0	0.0	0.0	7.7	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1	3.3	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.5	1.1	0.0	0.0	0.0	1.1	11.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	0.0	0.0	0.0	0.0		7.7	
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0		3.3	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.5	1.7	0.0	0.0	0.0		11.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.0%	50.0%	15.0%	0.0%	0.0%	0.0%		100%	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.4	11.0	11.0	11.0	11.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.0%	55.0%	100.0%	100.0%	100.0%	100.0%			

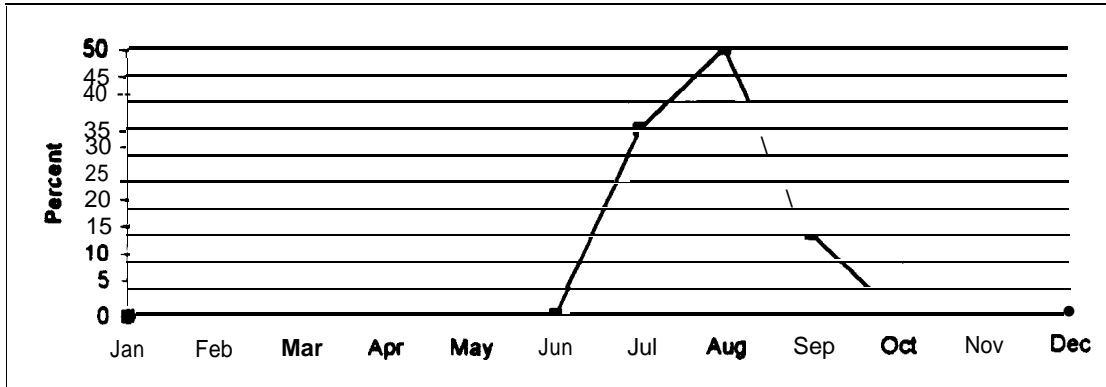
HARBOR SEAL HARVEST BY AGE AND SW

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	71.4%	5.5	71.4%
Juvenile Male	2	20.6%	2.2	28.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	7.7	100.0%

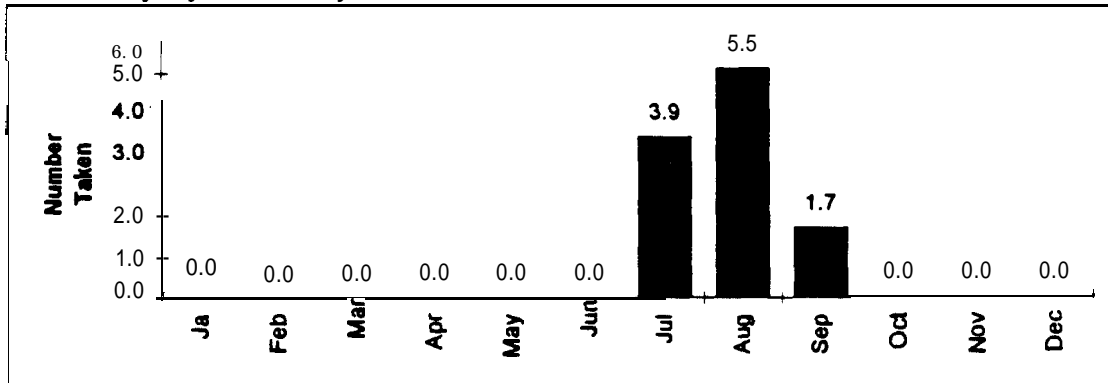
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1994.

FIGURE 98. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: EGEGIK, 1993

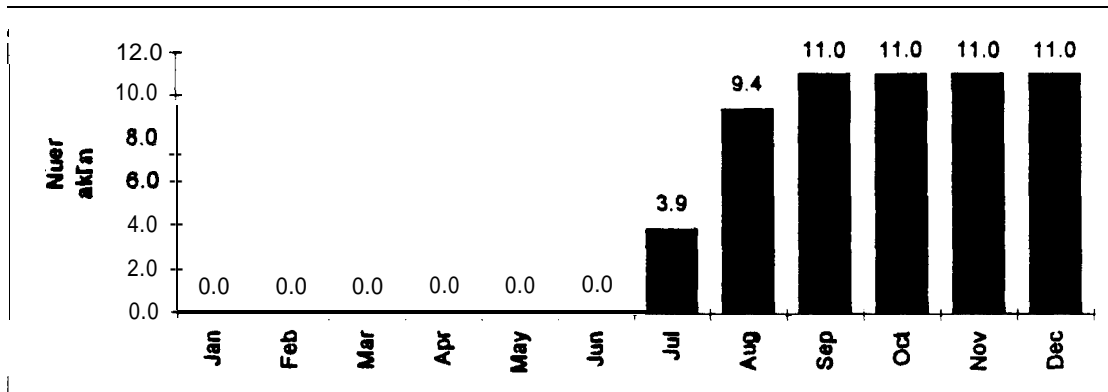
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1994.

TABLE 99. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KING SALMON, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	28
Surveyed Households	21
Sampling Fraction	75.0%
Sample Household Members	57
Estimated Household Members	76.0

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	0.0%
Hunted	4.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATE 0 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

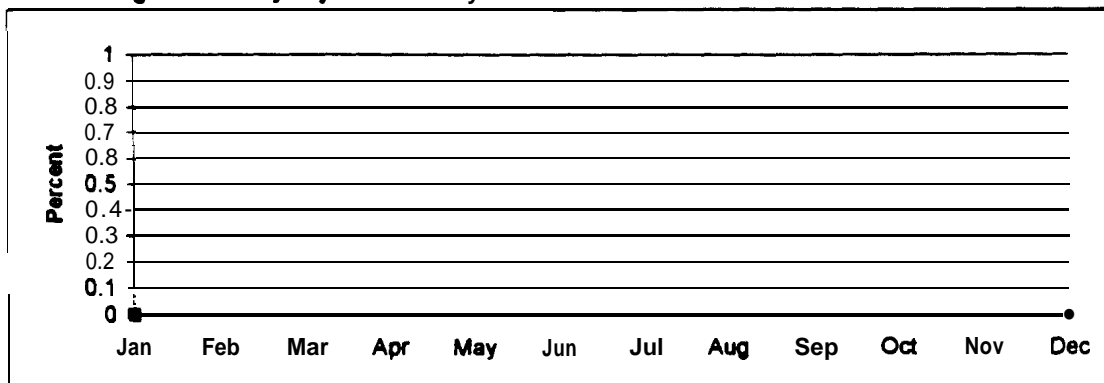
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

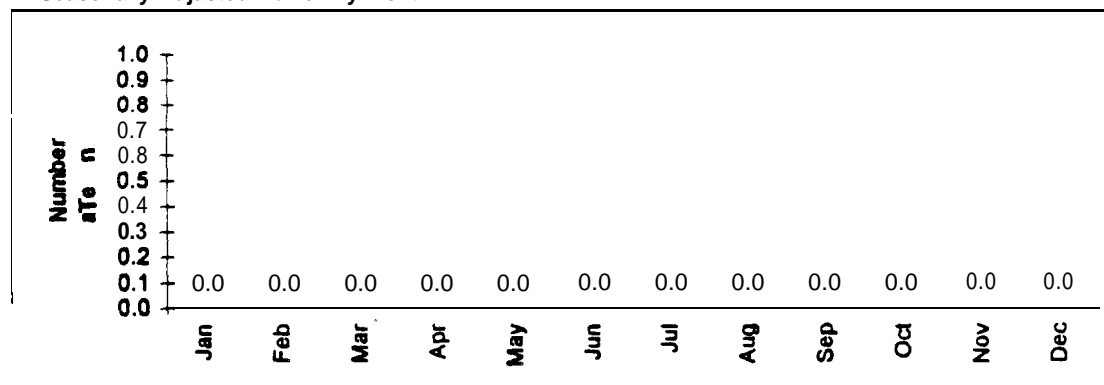
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1994.

FIGURE 99. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KING SALMON, 1993

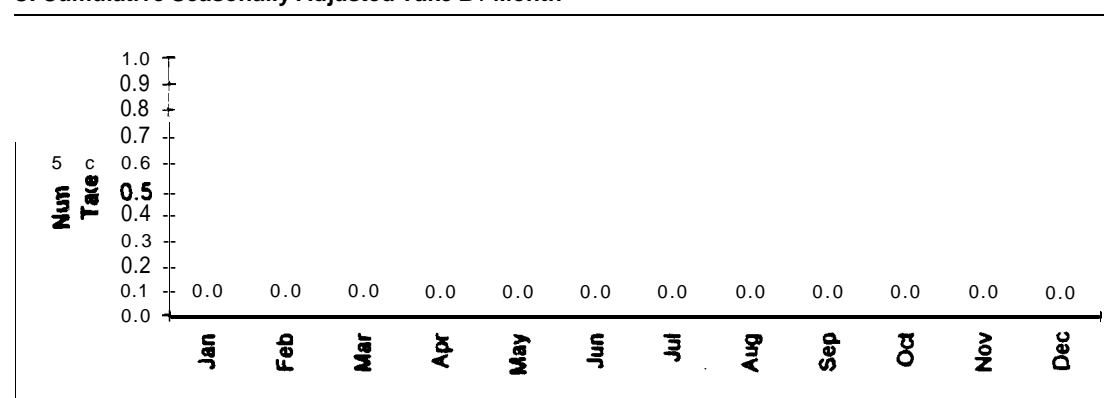
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1994.

TABLE 100. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KING SALMON, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	28
Surveyed Households	21
Sampling Fraction	75.0%
Sample Household Members	57
Estimated Household Members	76.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	38.1%
Hunted	23.8%
Harvested	19.0%
Received	38.1%
Gave Away	23.8%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	21.3
Total Number Struck and Lost	10.7
Total Number Taken	32.0
Number Harvested Per Capita	0.28

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	1	3	2	3	3	3	1	0	0	0	16	
Struck and Lost	0	0	0	0	1	0	6	0	0	1	0	0	0	8	
Total Take	0	0	0	1	4	2	9	3	3	2	0	0	0	24	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.3	4.0	2.1	4.0	4.0	4.0	1.3	0.0	0.0	0.0	21.3	
Struck and Lost	0.0	0.0	0.0	0.0	1.3	0.0	6.0	0.0	0.0	1.3	0.0	0.0	0.0	10.7	
Total Take	0.0	0.0	0.0	1.3	5.3	2.7	12.0	4.0	4.0	2.7	0.0	0.0	0.0	32.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.3	4.0	2.7	4.0	4.0	4.0	1.3	0.0	0.0		21.3	
Struck and Lost	0.0	0.0	0.0	0.0	1.3	0.0	6.0	0.0	0.0	1.3	0.0	0.0		10.7	
Total Take	0.0	0.0	0.0	1.3	5.3	2.7	12.0	4.0	4.0	2.7	0.0	0.0		32.0	
Total Take (%)	0.0%	0.0%	0.0%	4.2%	16.7%	8.3%	37.5%	12.5%	12.5%	8.3%	0.0%	0.0%		100%	
Cumulative Take	0.0	0.0	0.0	1.3	6.7	9.3	21.3	29.3	29.3	32.0	32.0	32.0			
Cum. Take (%)	0.0%	0.0%	0.0%	4.2%	20.8%	29.2%	66.7%	79.2%	91.7%	100.0%	100.0%	100.0%			

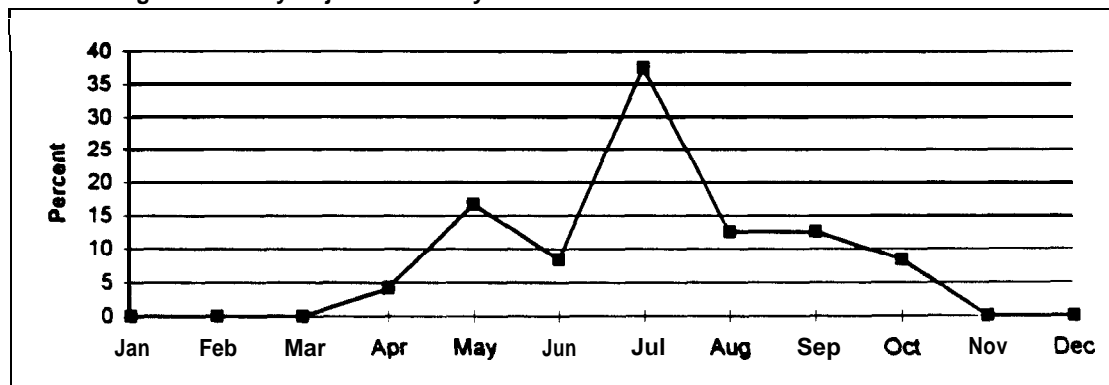
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	2	12.5%	2.7	12.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	14	87.5%	18.7	87.5%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	18	100.0%	21.3	100.0%

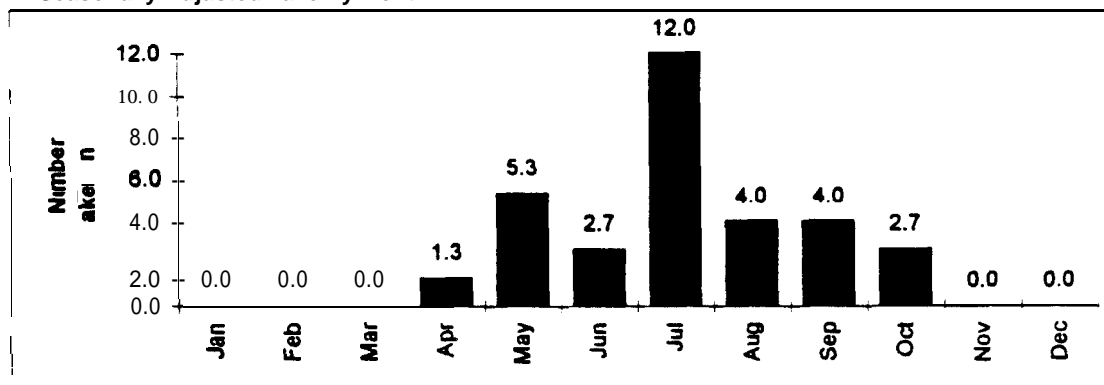
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1994.

FIGURE 100. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KING SALMON, 1993

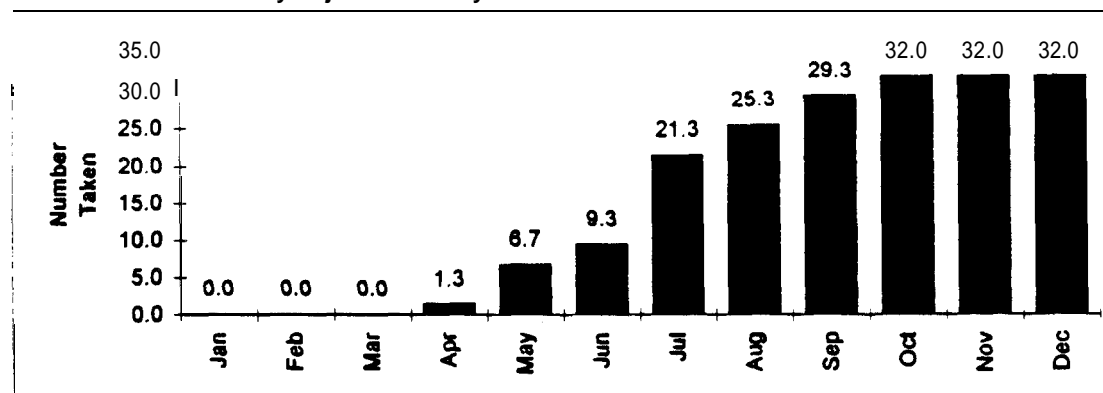
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1994.

TABLE 101. SEA UON (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: LEVELOCK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	35
Surveyed Households	26
Sampling Fraction	74.3%
Sample Household Members	76
Estimated Household Members	102.3

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jm	Feb	Mu	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

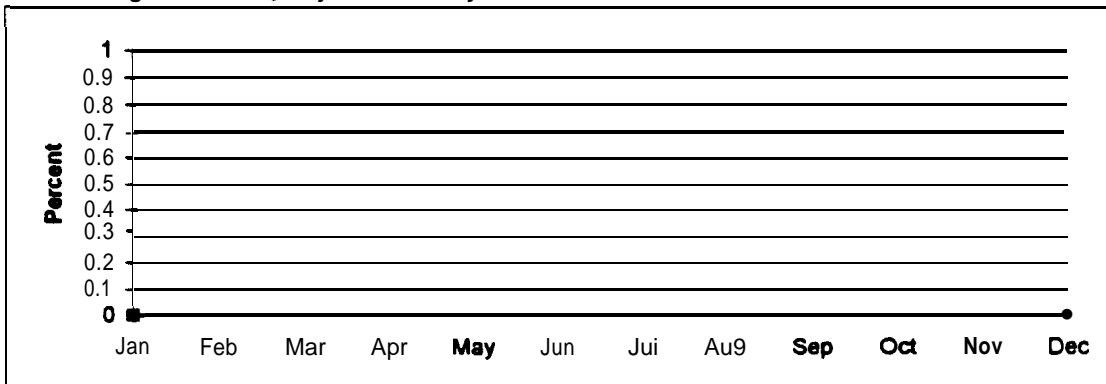
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

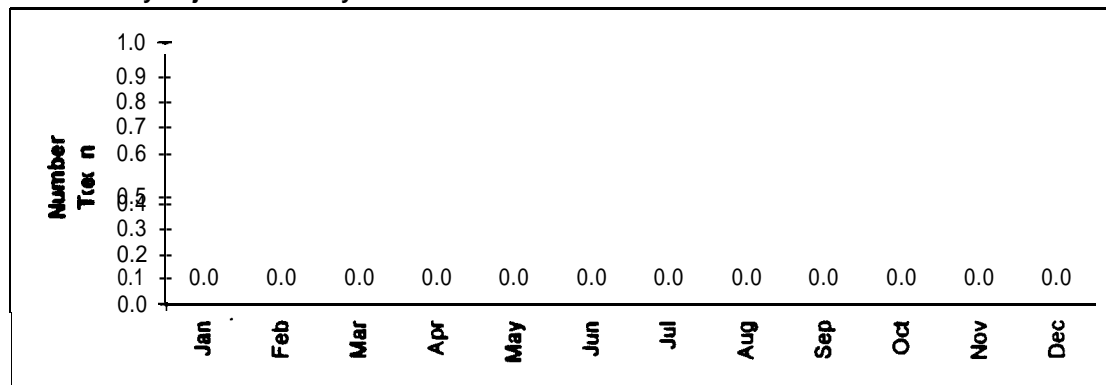
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1994.

FIGURE 101. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: LEVELOCK, 1993

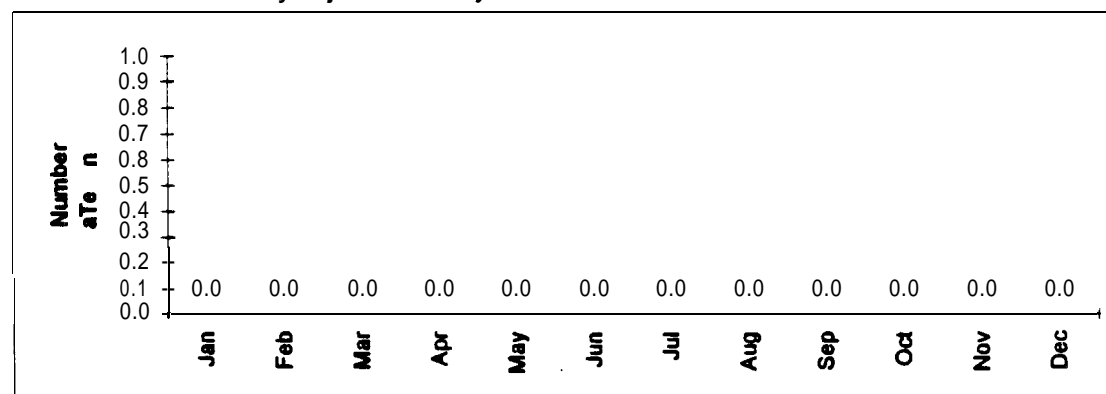
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1994.

TABLE 102. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: LEVELOCK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	38
Surveyed Households	28
Sampling Fraction	74.3%
Sample Household Member9	76
Estimated Household Members	102.3

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:
 Used 20.9%
 Hunted 11.5%
 Harvested 3.8%
 Received 23.1%
 Gave Away 7.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	2.7
Total Number Struck and Lost	5.4
Total Number Taken	8.1
Number Harvested Per Capita	0.03

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
Struck and Lost	0	0	0	0	0	0	0	0	2	0	0	0	2	4	
Total Take	0	0	0	0	0	0	0	0	2	0	0	0	4	6	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	2.7	5.4	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	5.4	8.1	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		2.7	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0		5.4	
Total Take	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5.6	0.2	0.2	0.2		8.1	
Total Take (%)	2.9%	2.9%	2.8%	2.9%	2.9%	2.9%	2.9%	2.9%	99.4%	2.8%	2.9%	2.8%		100%	
Cumulative Take	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	7.4	7.6	7.9	8.1			
Cum. Take (%)	2.9%	5.6%	8.3%	11.1%	13.9%	16.7%	19.4%	22.2%	91.7%	94.4%	97.2%	100.0%			

HARBOR SEAL HARVEST BY AGE AND SEX

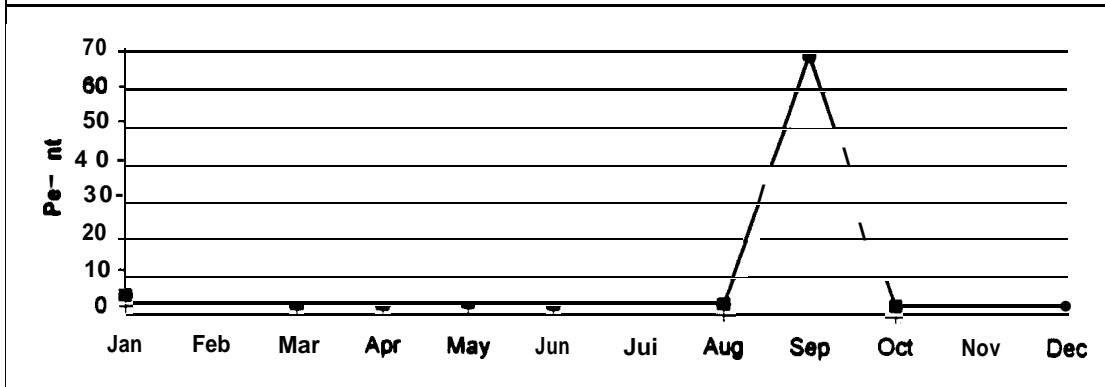
	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	100.0%	2.7	100.0%
Total	2	100.0%	2.7	100.0%

SOURCE:

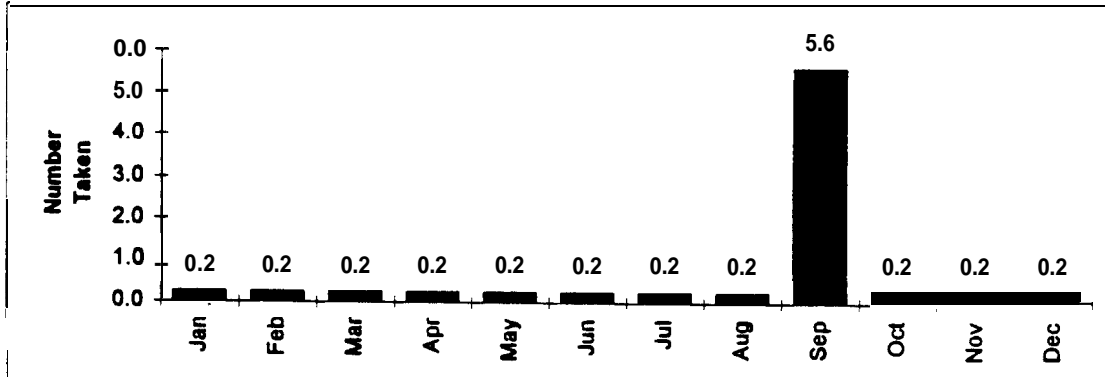
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1994.

FIGURE 102. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: LEVELOCK. 1993

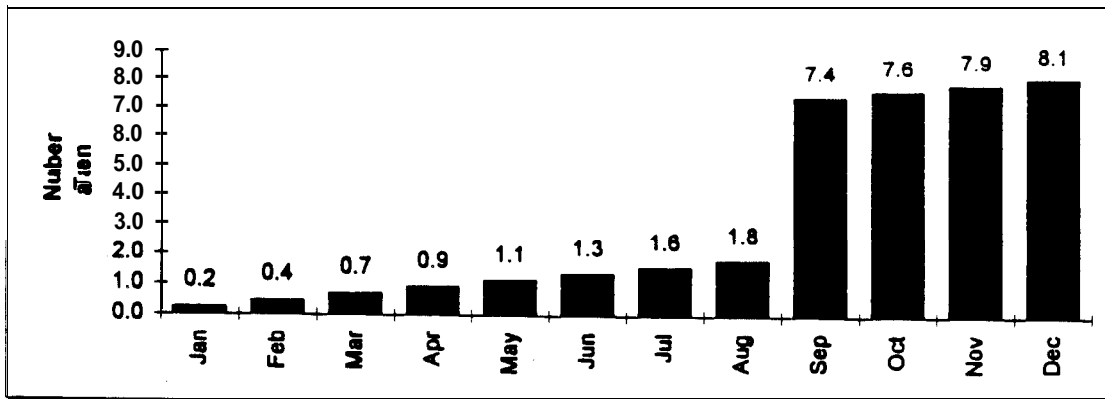
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1994.

TABLE 103. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NAKNEK, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	19	71	90
Surveyed Households	14	26	40
Sampling Fraction	73.7%	36.6%	44.4%
Sample Household Members	6	1	8
Estimated Household Members	82.8	223.9	308.7

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

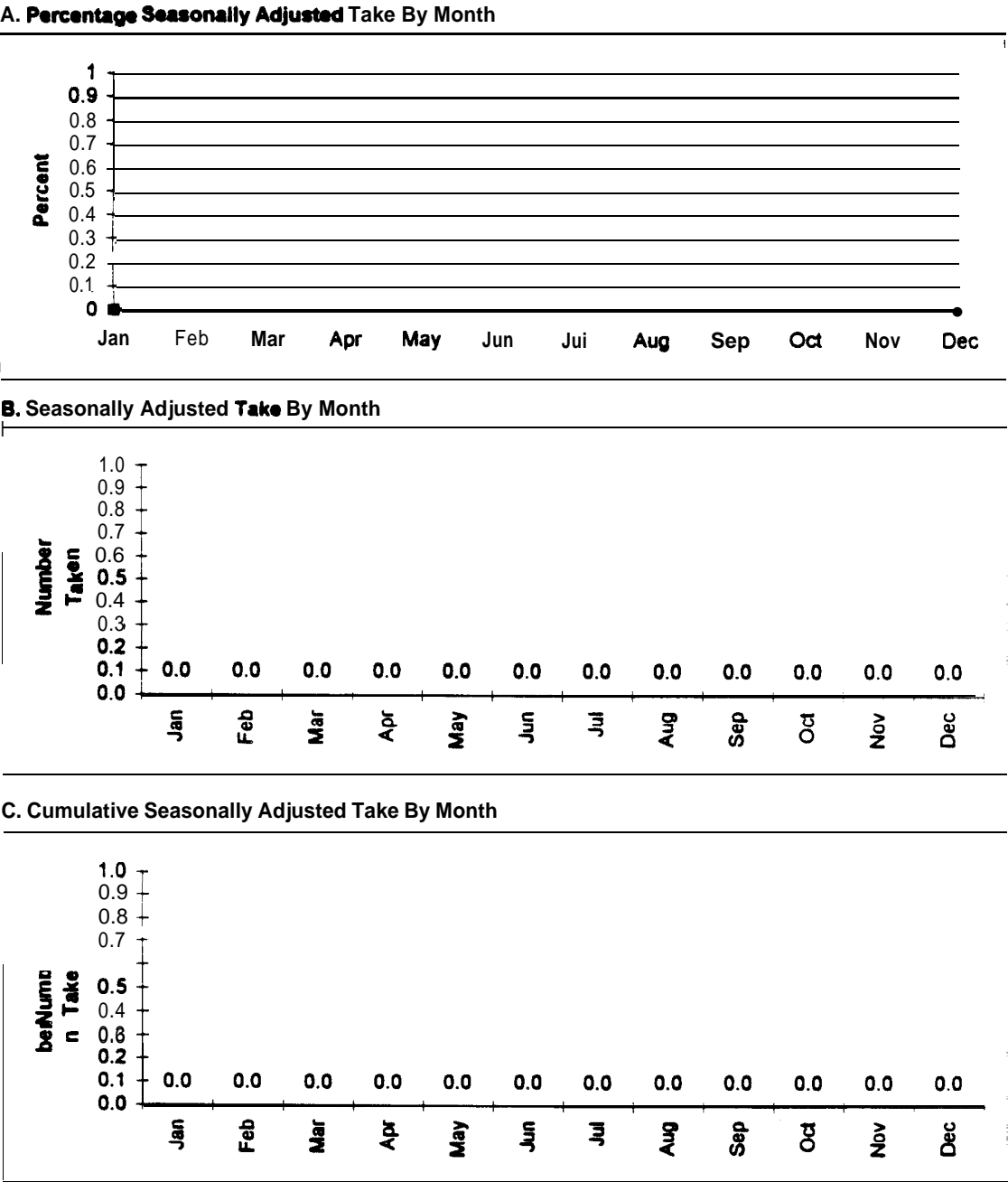
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 1994.

FIGURE 103. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NAKNEK, 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council. 1994.

TABLE 164. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NAKNEK, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	19	71	90
Surveyed Households	14	26	40
Sampling Fraction	73.7%	36.6%	44.4%
Sample Household Members	61	82	143
Estimated Household Member6	82.8	223.9	306.7

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	19.7%
Hunted	1.5%
Harvested	1.5%
Received	6.1%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	2.7
Total Number Struck and Lost	<u>0.0</u>
Total Number Taken	2.7
Number Harvested Per Capita	0.01

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	2	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0		2.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0		2.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

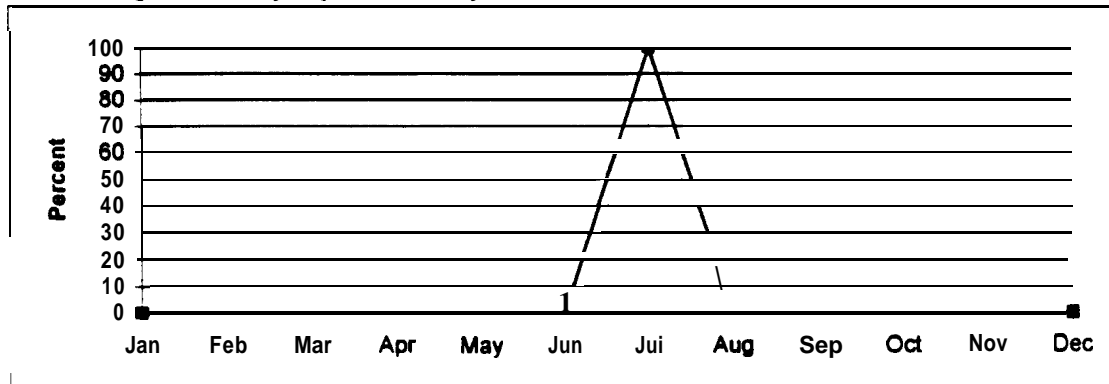
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	100.0%	2.7	100.0%
Total	2	100.0%	2.7	100.0%

SOURCE:

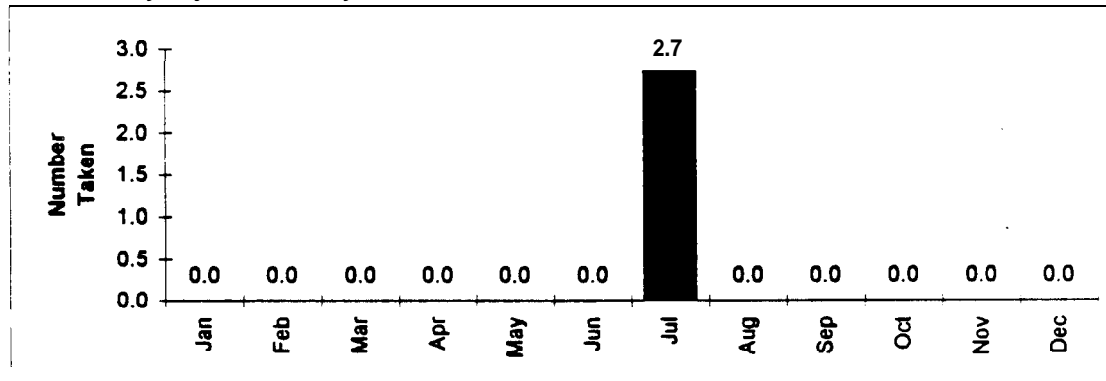
Alaska Department of Fish and Game, Division of Subsistence, Subsistence study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 1994.

FIGURE 164. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NAKNEK, 1993

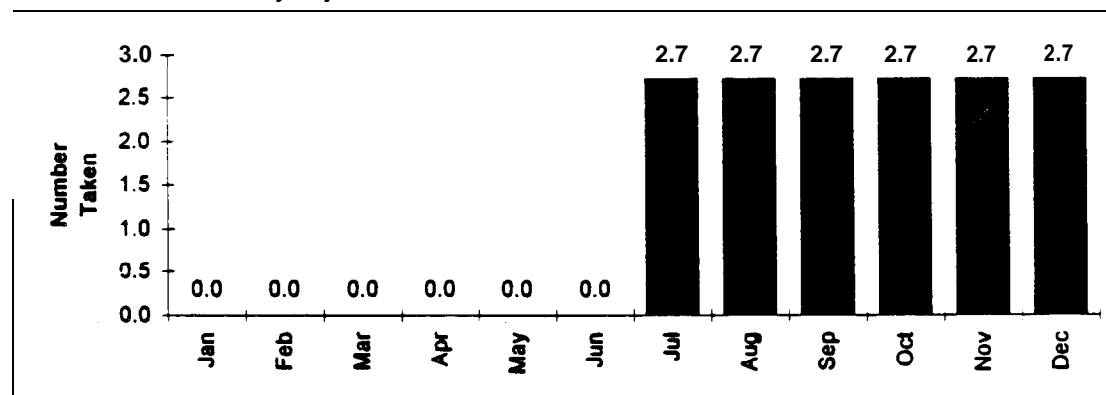
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 1994.

TABLE 106. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PILOT POINT, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.6%
Sample Household Members	82
Estimated Household Members	68.6

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

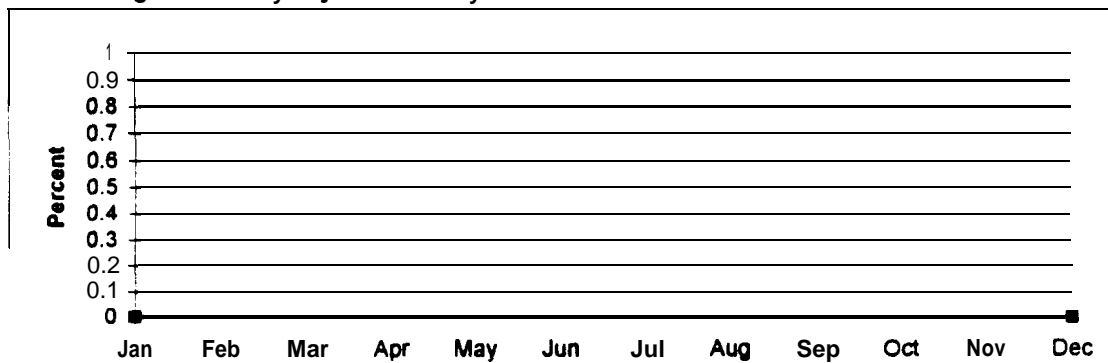
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

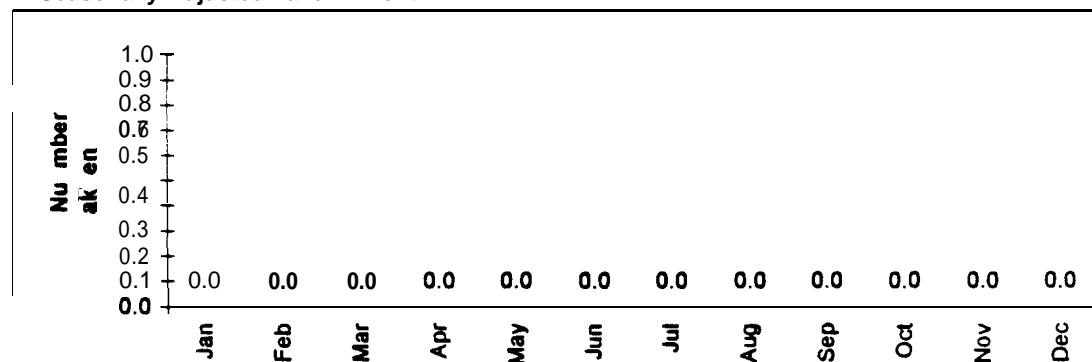
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1994.

FIGURE 105. SEA LION (*Eumotopirs jubatus*) TAKE ESTIMATES: PILOT POINT, 1993

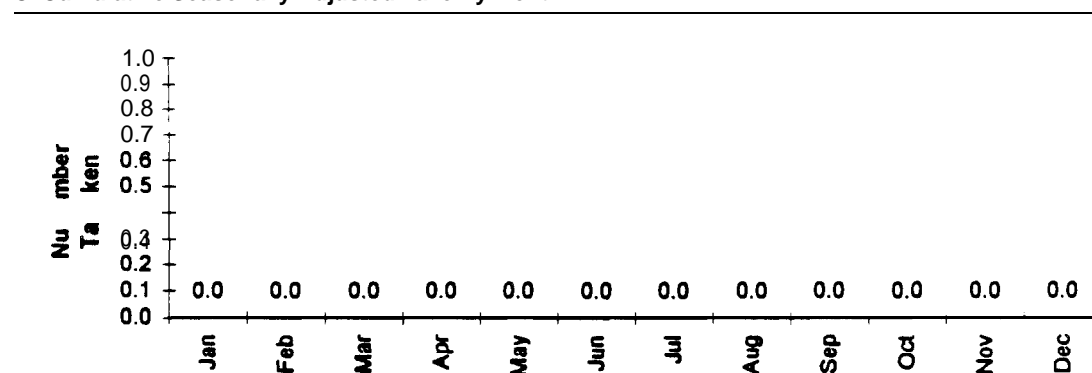
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1994.

TABLE 106. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TARE ESTIMATES: PILOT POINT, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.8%
Sample Household Members	82
Estimated Household Members	88.8

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	10.0%
Hunted	8.0%
Harvested	8.0%
Received	12.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	2.2
Total Number Struck and Lost	0.0
Total Number Taken	2.2
Number Harvested Per Capita	0.02

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	0	0	0	0	1	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	0	0	0	0	0	1	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1		2.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1		2.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

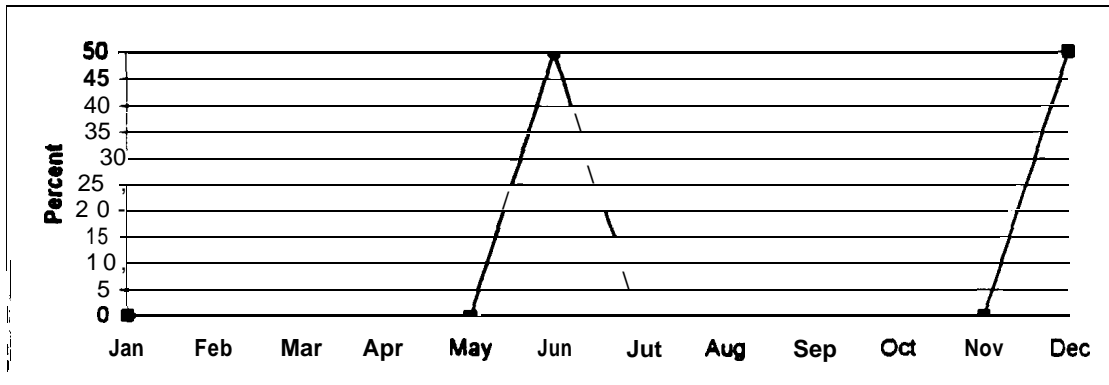
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	50.0%	1.1	50.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	50.0%	1.1	50.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.2	100.0%

SOURCE:

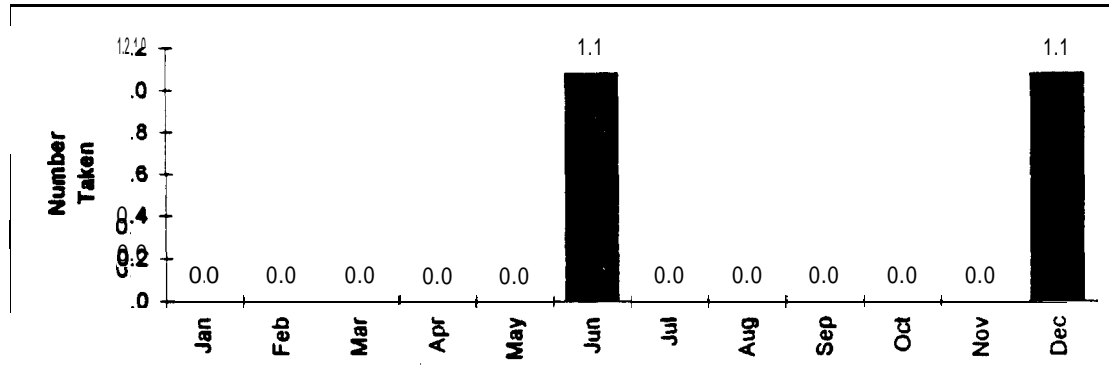
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1994.

FIGURE 106. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PILOT POINT, 1993

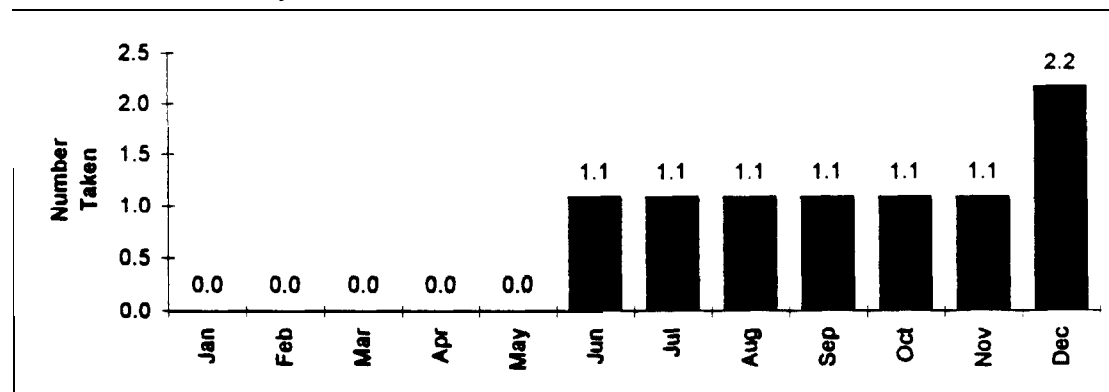
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1994.

TABLE 107. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT HEIDEN, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	23
Surveyed Households	15
Sampling Fraction	65.2%
Sample Household Members	U
Estimated Household Members	67.5

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	<u>0.0</u>
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%

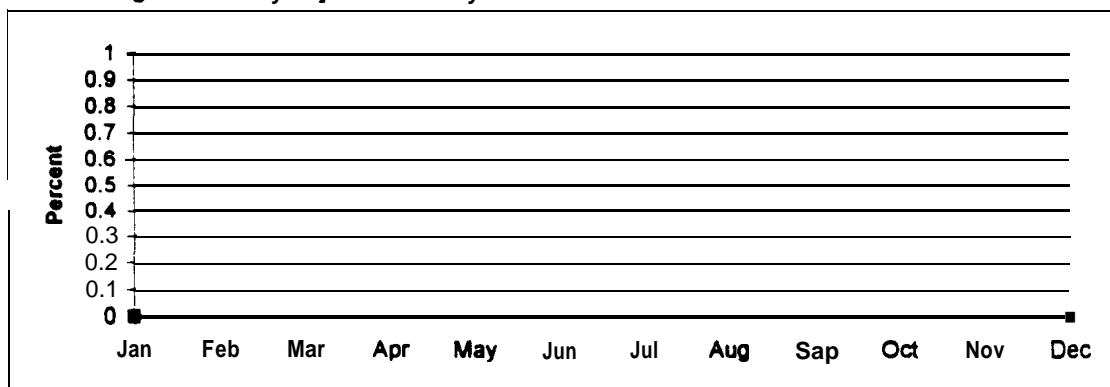
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	
Juvenile Unknown Sex	0	---	0.0	
Pup Male	0	---	0.0	
Pup Female	0	---	0.0	
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

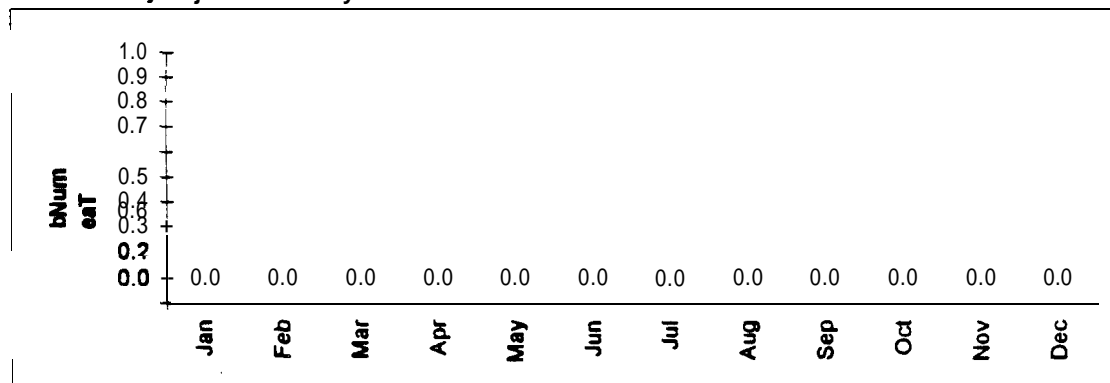
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1994.

FIGURE 107. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT HEIDEN, 1993

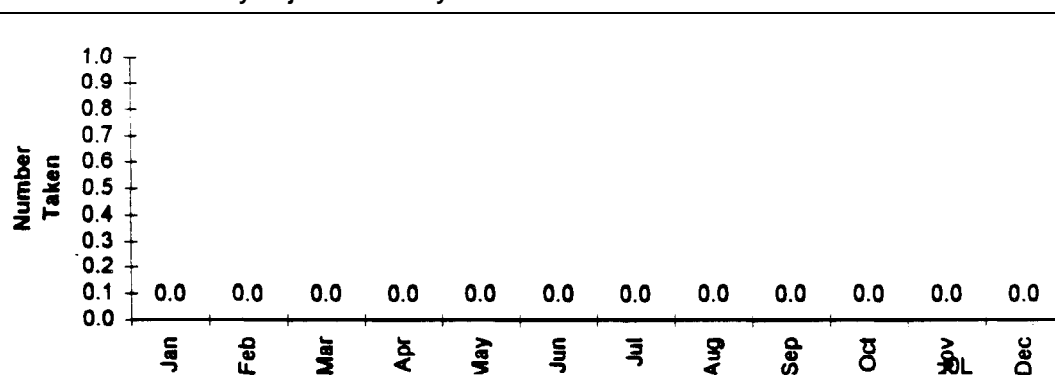
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1994.

TABLE 106. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PORT HEIDEN, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	23
Surveyed Households	15
Sampling Fraction	65.2%
Sample Household Members	U
Estimated Household Members	67.5

HARBOR SEAL HARVEST AND USE INFORMATION

Per cent Of Native Households:
 used 66.7%
 Hunted 60.0%
 Harvested 40.0%
 Received 86.7%
 Gave Away 60.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	30.7
Total Number Struck and Lost	19.9
Total Number Taken	50.6
Number Harvested Per Capita	0.45

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	5	5	5	5	0	0	0	0	0	20
Struck and Lost	0	0	0	0	1	2	1	7	1	0	0	0	1	13
Total Take	0	0	0	0	6	7	6	12	1	0	0	0	1	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	7.7	7.7	1.7	7.1	0.0	0.0	0.0	0.0	0.0	30.7
Struck and Lost	0.0	0.0	0.0	0.0	1.5	3.1	1.5	10.7	1.5	0.0	0.0	0.0	1.5	19.9
Total Take	0.0	0.0	0.0	0.0	9.2	10.7	9.2	18.4	1.5	0.0	0.0	0.0	1.5	60.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	7.7	7.7	7.7	7.7	0.0	0.0	0.0	0.0		30.7
Struck and Lost	0.0	0.0	0.0	0.0	1.7	3.3	1.7	11.6	1.7	0.0	0.0	0.0		19.9
Total Take	0.0	0.0	0.0	0.0	9.3	11.0	9.3	19.3	1.7	0.0	0.0	0.0		50.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	18.4%	21.7%	18.4%	38.1%	3.3%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	9.3	20.3	29.6	40.9	60.6	60.6	60.6	50.6		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	18.4%	40.2%	58.6%	96.7%	100.0%	100.0%	100.0%	100.0%		

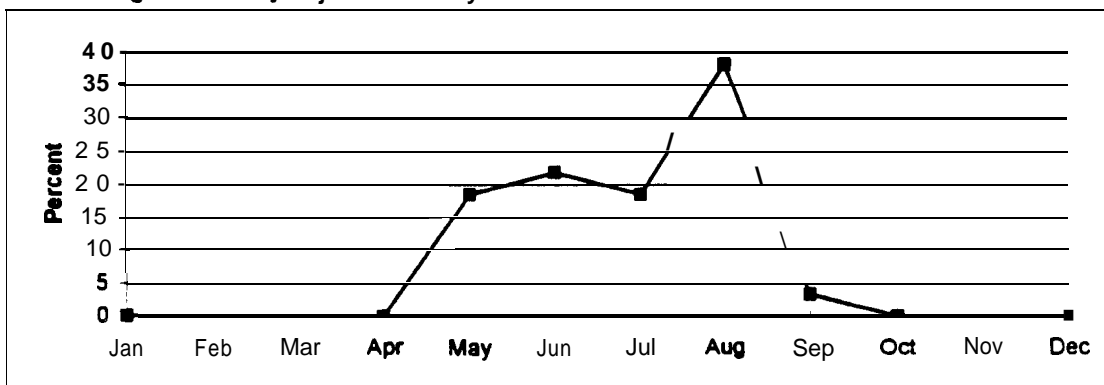
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	5.0%	1.5	5.0%
Adult Unknown Sex	18	90.0%	27.0	90.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	5.0%	1.5	5.0%
Total	20	100.0%	30.7	100.0%

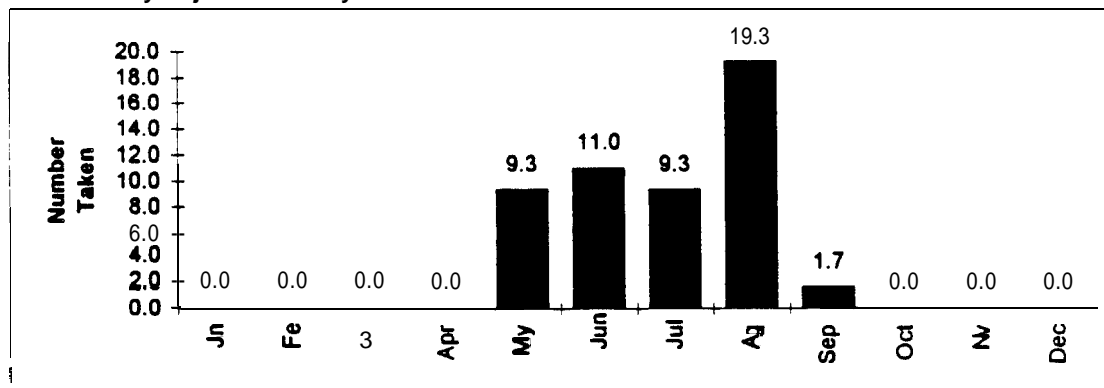
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1994.

FIGURE 108. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT HEIDEN, 1993

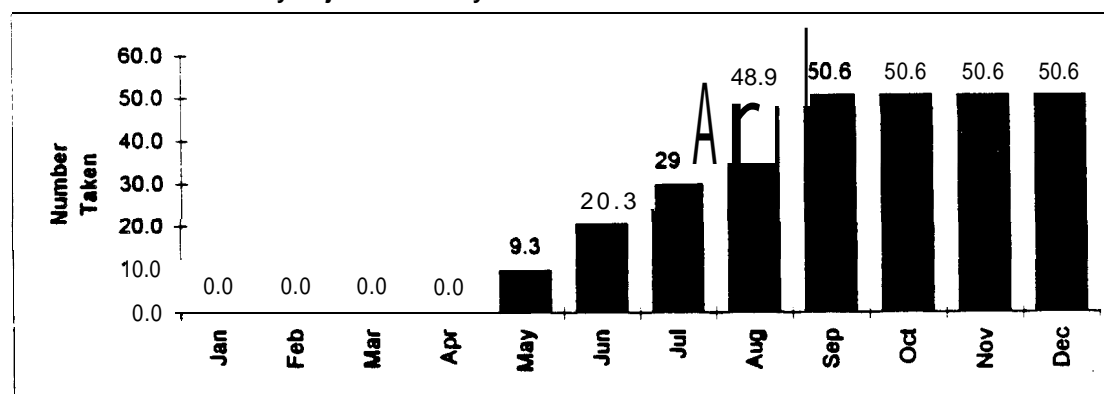
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1994.

TABLE 109. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SOUTH NAKNEK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	3s
Surveyed Households	33
Sampling Fraction	94.3%
Sample Household Members	99
Estimated Household Members	105.0

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

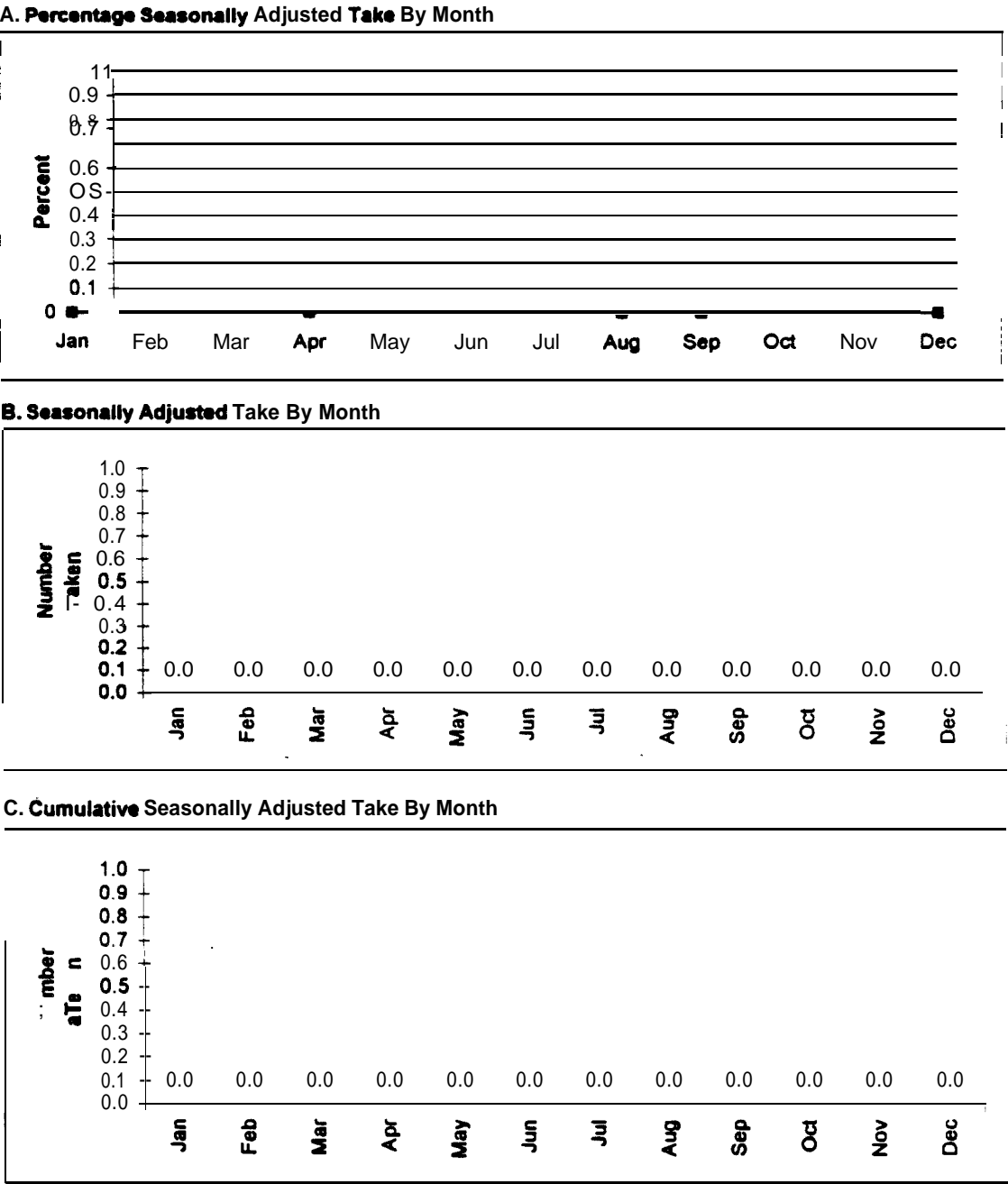
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1994.

FIGURE 109. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SOUTH NAKNEK, 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1994.

TABLE 110. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SOUTH NAKNEK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	3s
Surveyed Households	33
Sampling Fraction	94.3%
Sample Household Members	99
Estimated Household Members	105.0

HARBOR SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	42.4%
Hunted	33.3%
Harvested	12.1%
Received	39.4%
Gave Away	15.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	6.4
Total Number Struck and Lost	18.0
Total Number Taken	24.4
Number Harvested Per Capita	0.06

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	3	0	0	0	2	0	0	0	0	1	6
Struck and Lost	0	0	0	0	0	0	9	6	2	0	0	0	0	17
Total Take	0	0	0	3	0	0	9	8	2	0	0	0	1	23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	1.1	6.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	9.5	6.4	2.1	0.0	0.0	0.0	0.0	18.0
Total Take	0.0	0.0	0.0	3.2	0.0	0.0	9.5	8.5	2.1	0.0	0.0	0.0	1.1	24.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.8	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0		6.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	9.5	6.4	2.1	0.0	0.0	0.0		18.0
Total Take	0.0	0.0	0.0	3.8	0.0	0.0	9.5	8.9	2.1	0.0	0.0	0.0		24.4
Total Take (%)	0.0%	0.0%	0.0%	15.7%	0.0%	0.0%	39.1%	36.5%	8.7%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	3.8	3.8	3.0	13.4	22.3	24.4	24.4	24.4	24.4		
Cum. Take (%)	0.0%	0.0%	0.0%	15.7%	15.7%	10.0%	54.8%	91.3%	100.0%	100.0%	100.0%	100.0%		

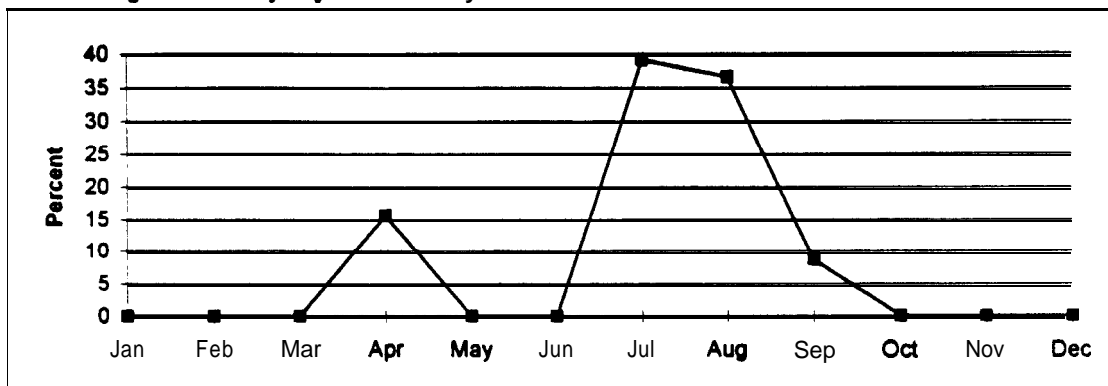
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	83.3%	5.3	83.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	16.7%	1.1	16.7%
Total	6	100.0%	6.4	100.0%

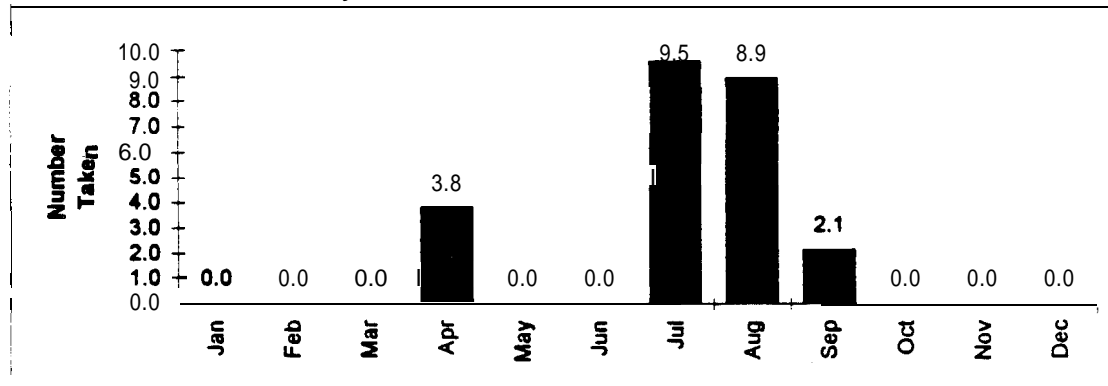
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1994.

FIGURE 110. HARBOR SEAL (*Phoca vitulin*) TAKE ESTIMATES: SOUTH NAKNEK, 1993

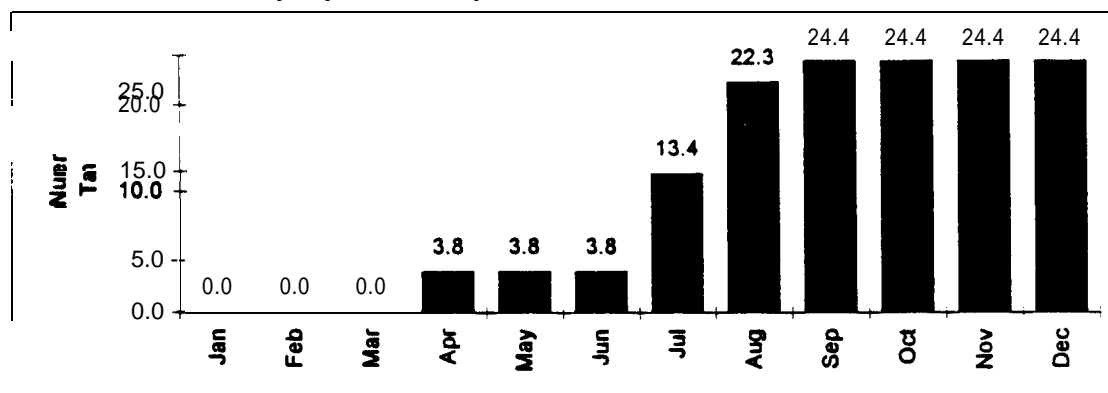
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion* and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1994.

NORTH BRISTOL BAY

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TABLE 111. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	37
Surveyed Households	23
Sampling Fraction	62.2%
Sample Household Members	89
Estimated Household Members	143.2

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0
Number Harvested Per Capita	0.00

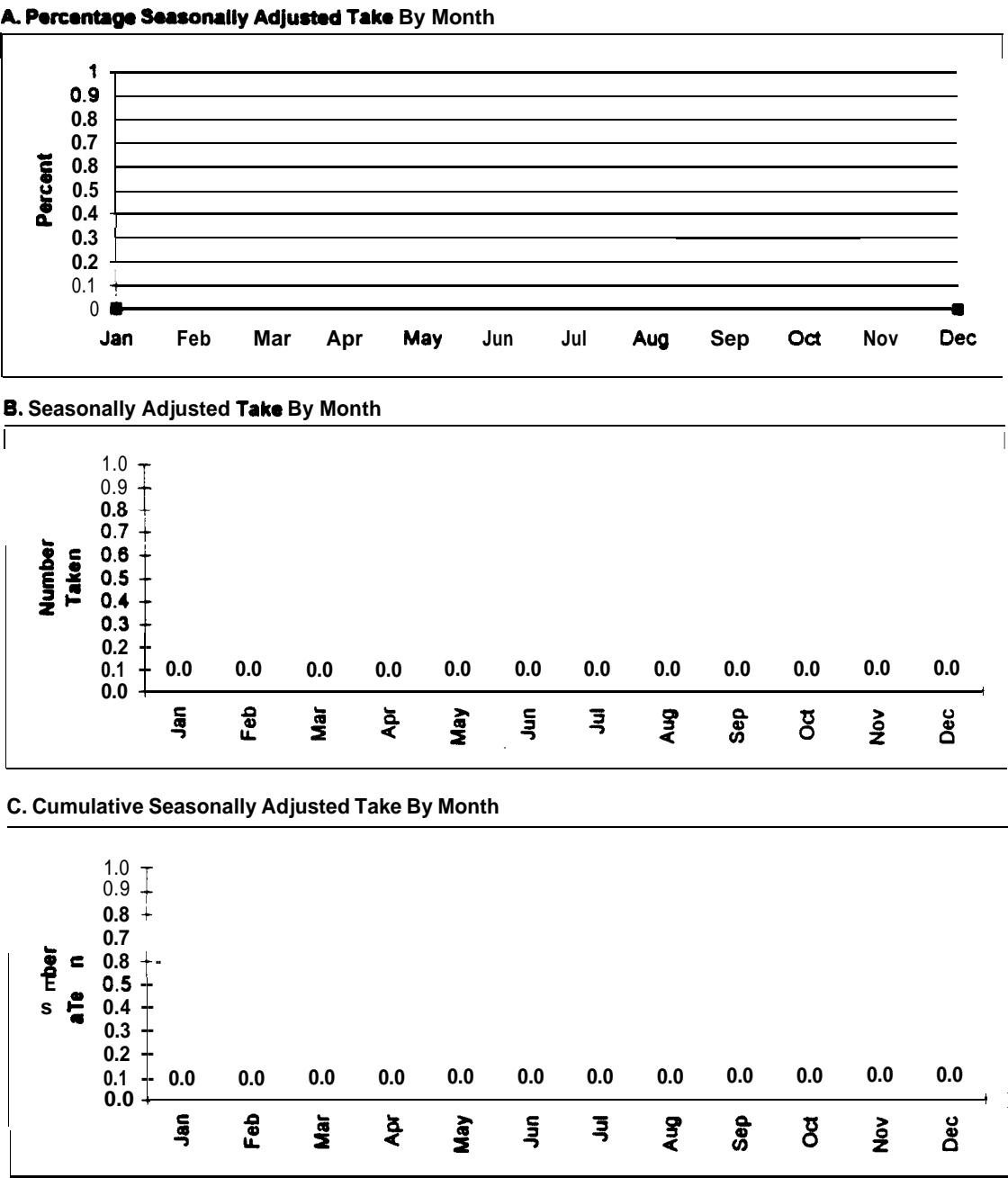
SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

FIGURE 111. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ALEKNAGIK, 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

TABLE 112. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1993

SAMPLING DESIGN: CENSUS

Total Native Households	37
Surveyed Households	23
Sampling Fraction	62.2%
Sample Household Members	89
Estimated Household Members	143.2

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used 91.3%
Hunted 34.8%
Harvested 8.7%
Received 82.8%
Gave Away 21.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 4.8
Total Number Struck and Lost 0.0
Total Number Taken 4.8
Number Harvested Per Capita 0.03

HARBOR SEAL AND SPOTTED SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	3	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	4.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX

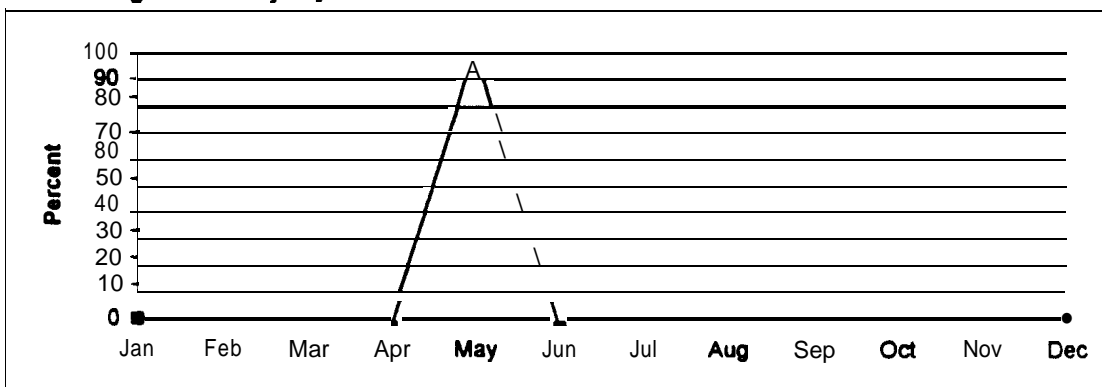
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.8	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	89.7%	3.2	86.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	4.8	100.0%

SOURCE:

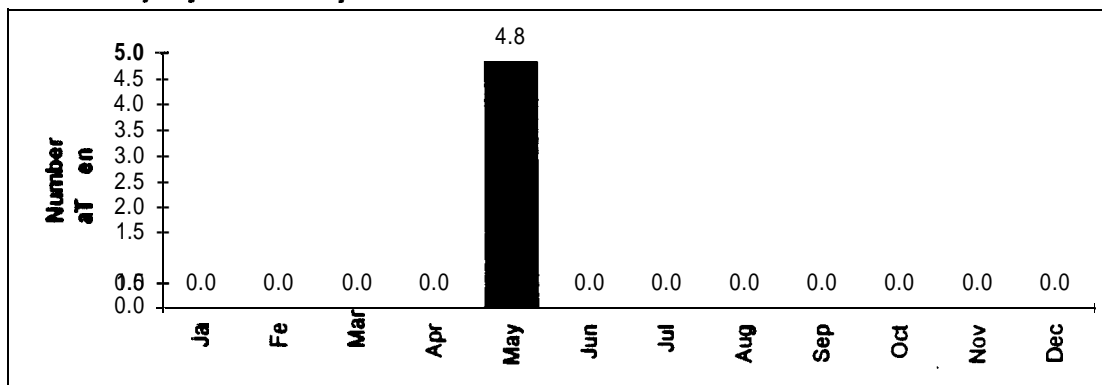
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

FIGURE 112. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: ALEKNAGIK, 1993

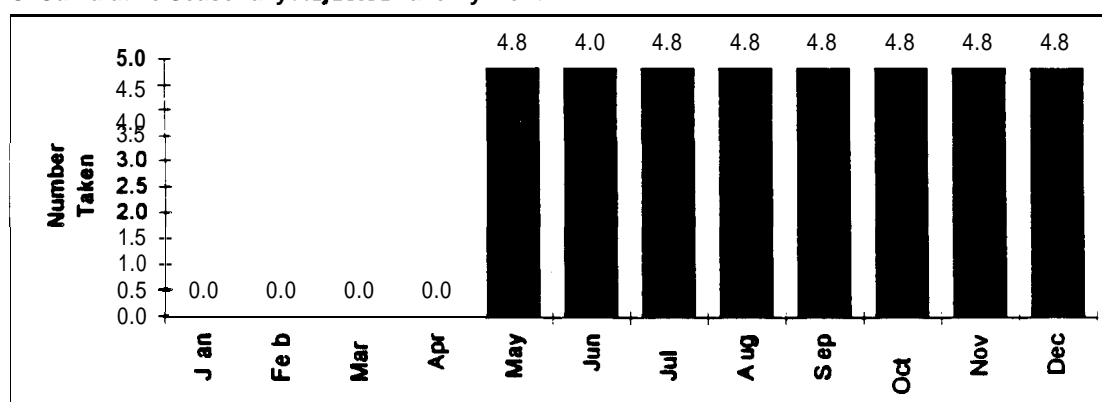
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council. 1994.

TABLE 113. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	37
Surveyed Households	23
Sampling Fraction	62.2%
Sample Household Members	89
Estimated Household Members	143.2

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	91.3%
Hunted	34.8%
Harvested	8.7%
Received	82.8%
Gave Away	21.7%

HARBOR SEAL HARVEST INFORMATION**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

HARBOR SEAL HARVEST BY SEASON

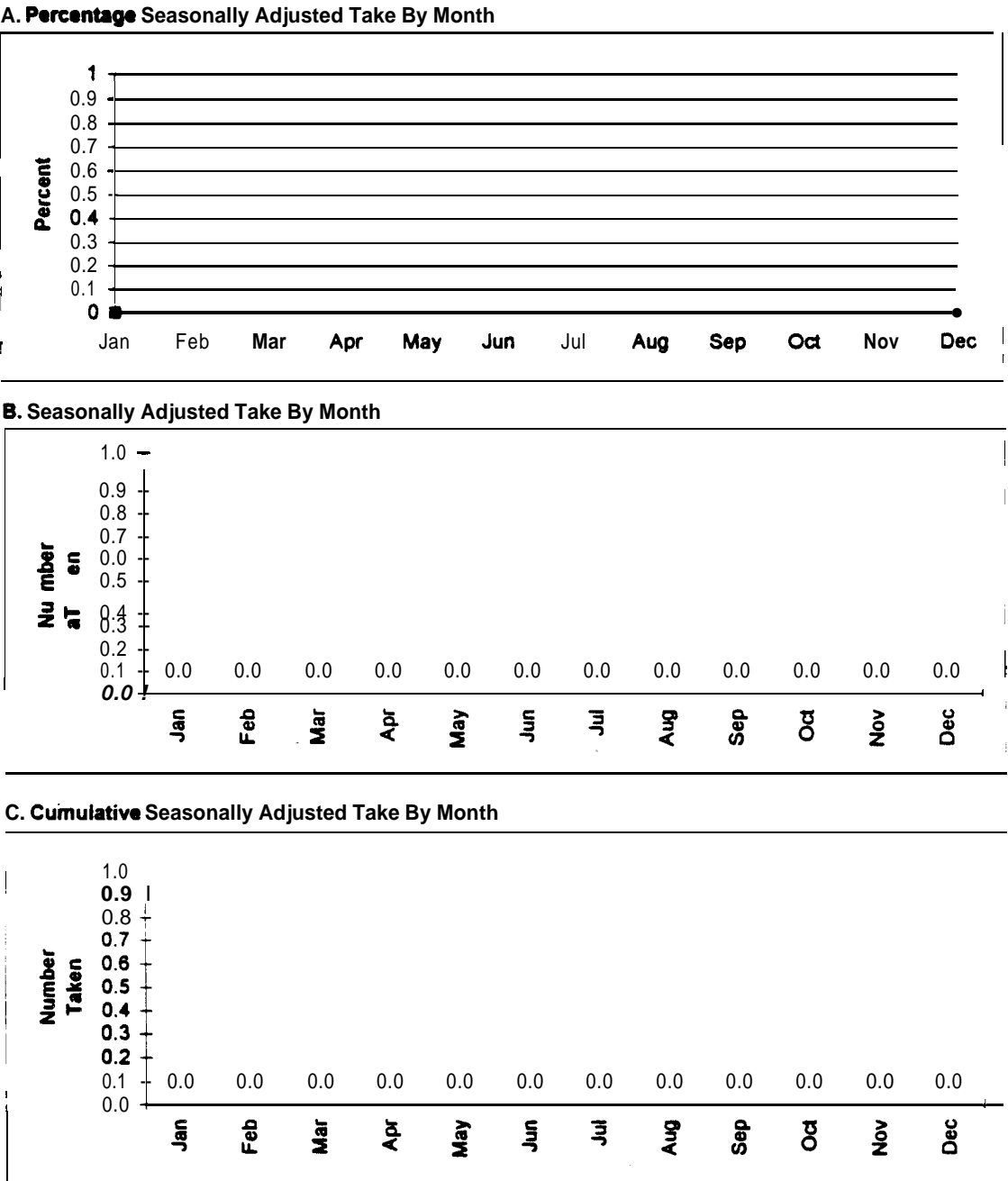
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

FIGURE 113. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ALEKNAGIK. 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

TABLE 114. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	37
Surveyed Households	23
Sampling Fraction	82.2%
Sample Household Members	89
Estimated Household Memben	143.2

ISSURIQ HARVEST AND USE INFORMATION

Percent (Native Households):
 Used 91.3%
 Hunted 34.8%
 Harvested 8.7%
 Received 82.0%
 Gave Away 21.7%

SPOTTED SEAL HARVEST INFORMATION

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 4.8
 Total Number Struck and Lost 0.0
 Total Number Taken 4.8
 Number Harvested Per Capita 0.03

SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	T O W
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	3	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
Total Take (X)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	4.8	4.8	4.8	4.8	4.8	4.0	4.8	4.8	4.8	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

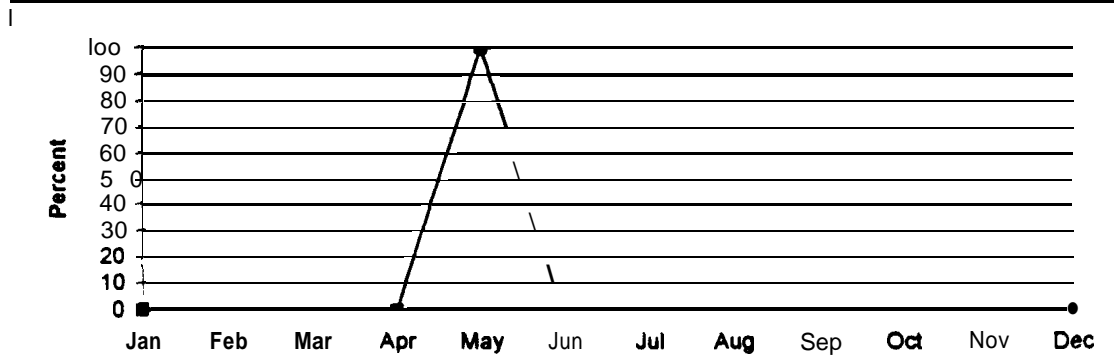
SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.6	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	66.7%	3.2	89.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	4.8	100.0%

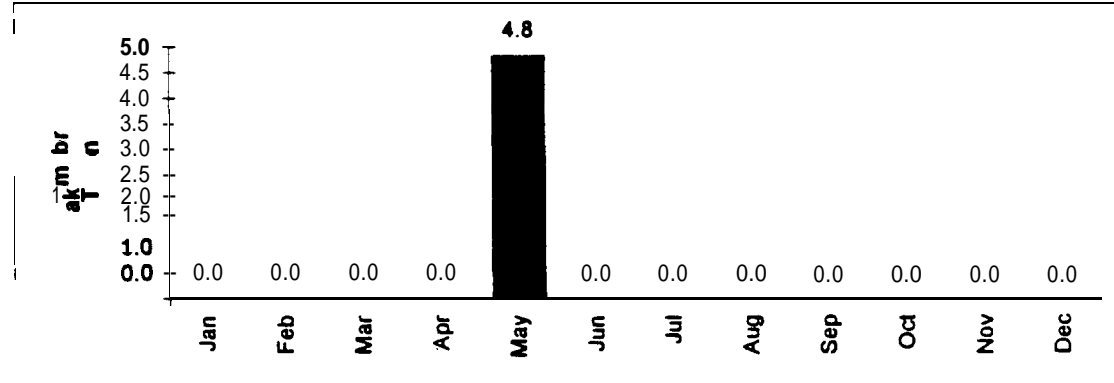
SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with • sd8tmta from me Aleknagik Tribal Council. 1994.

FIGURE 114. **SPOTTED SEAL** (*Phoca largha*) TAKE ESTIMATES: ALEKNAGIK, 1993

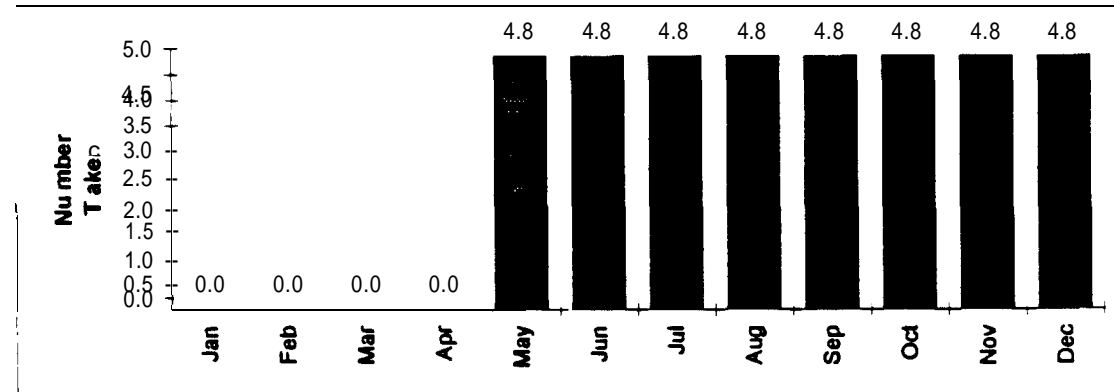
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1994.

TABLE 115. SEA LION (*Eumetopias jubatus*) HARVEST AND TARE ESTIMATES: CLARK'S POINT, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	15
Surveyed Households	15
Sampling Fraction	100.0%
Sample Household Members	40
Estimated Household Members	40.0

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Aways	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

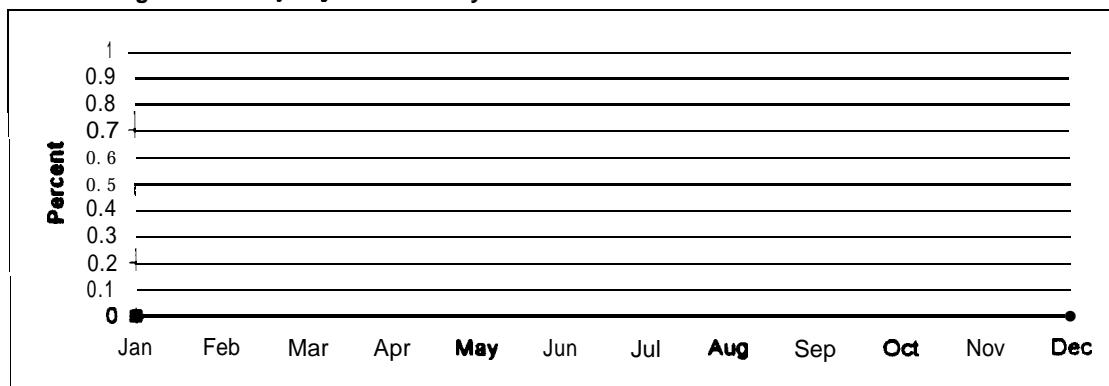
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

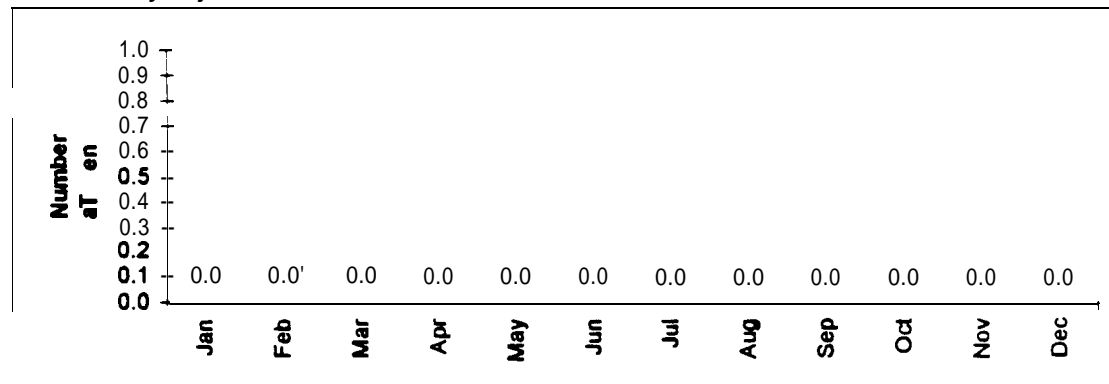
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

FIGURE 116. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CLARK'S POINT, 1993

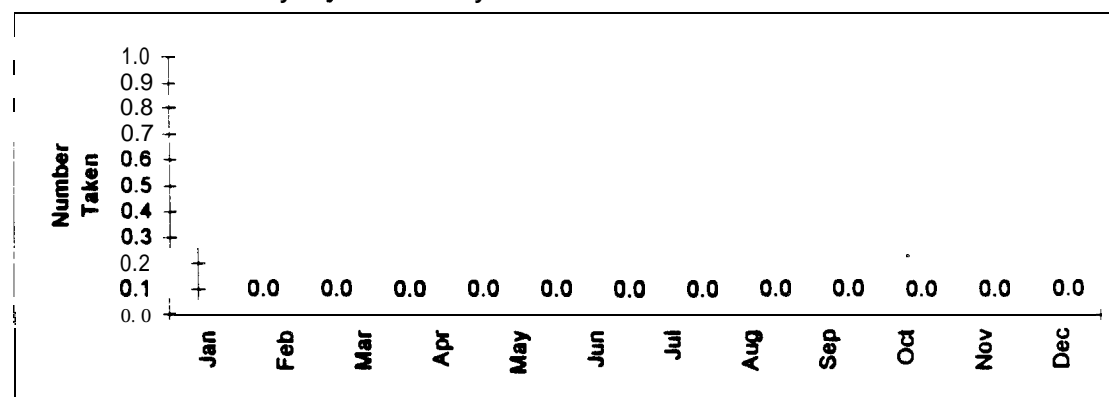
A. Percentage **Seasonally Adjusted** Take By Month



B. Seasonally Adjusted **Take** By Month



C. Cumulative Seasonally Adjusted **Take** By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

TABLE 116. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1993

SAMPLING DESIGN: CENSUS

Total Nstive Households	15
Surveyed Households	15
Sampling Fraction	100.0%
Sample Household Members	40
Estimated Household Members	40.0

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	13.3%
Hunted	20.0%
Harvested	0.7%
Received	6.7%
Gave Away	0.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	2.0
Total Number Struck and Lost	<u>0.0</u>
Total Number Taken	2.0
Number Harvested Per Capita	0.05

HARBOR SEAL AND SPOTTED SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Total Take (X)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Cum. Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

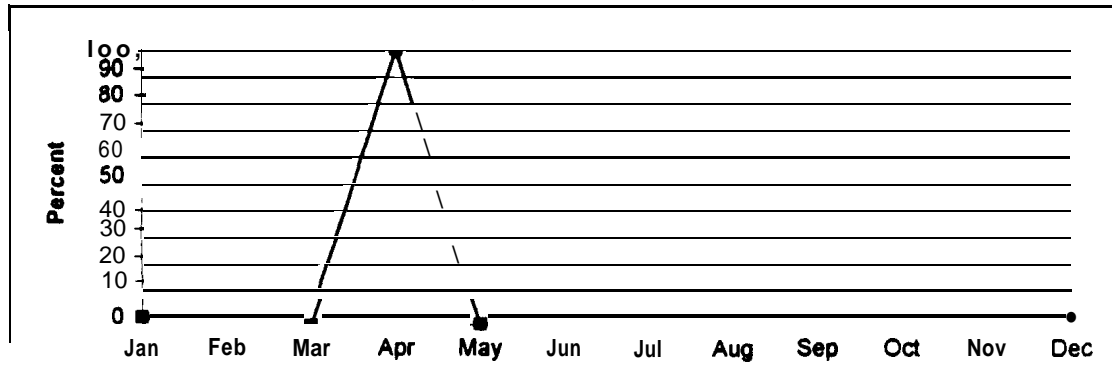
HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	100.0%	2.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.0	100.0%

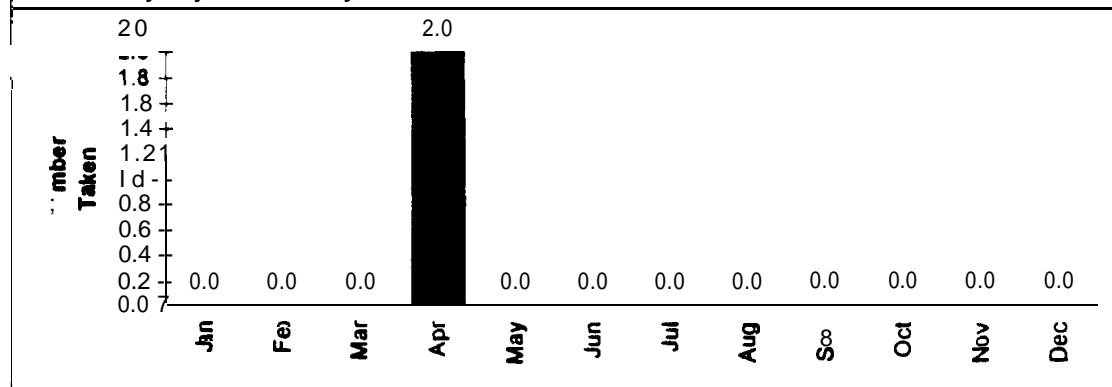
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

FIGURE 116. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: CLARK'S POINT, 1993

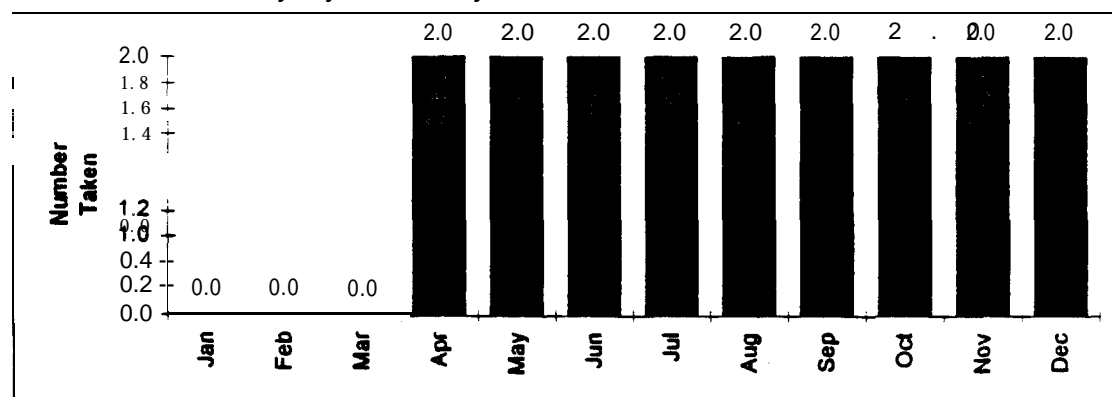
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Takes By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

TABLE 117. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	15
Surveyed Households	15
Sampling Fraction	100.0%
Sample Household Members	40
Estimated Household Members	40.0

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	13.3%
Hunted	20.0%
Harvested	0.7%
Received	6.7%
Gave Away	6.7%

HARBOR SEAL HARVEST INFORMATION**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

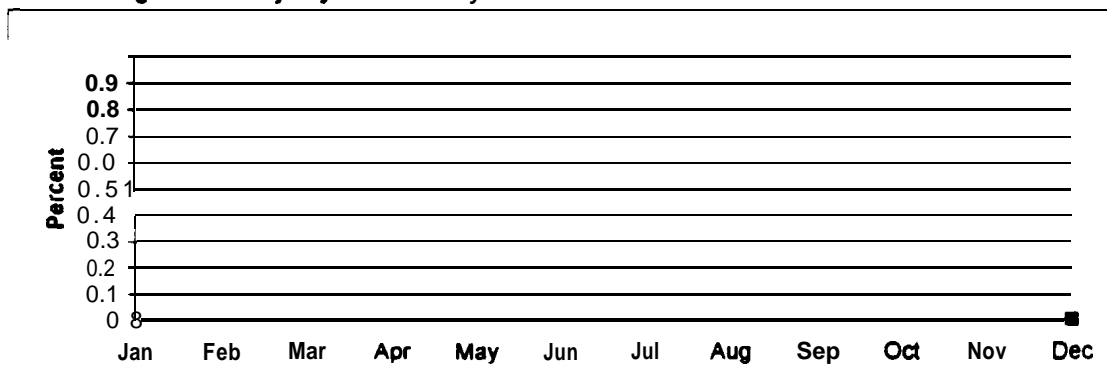
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

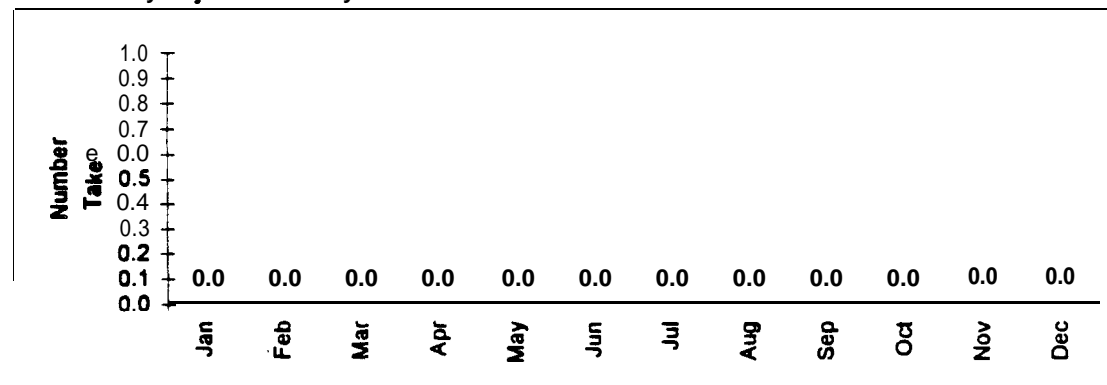
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

FIGURE 117. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CLARK'S POINT, 1993

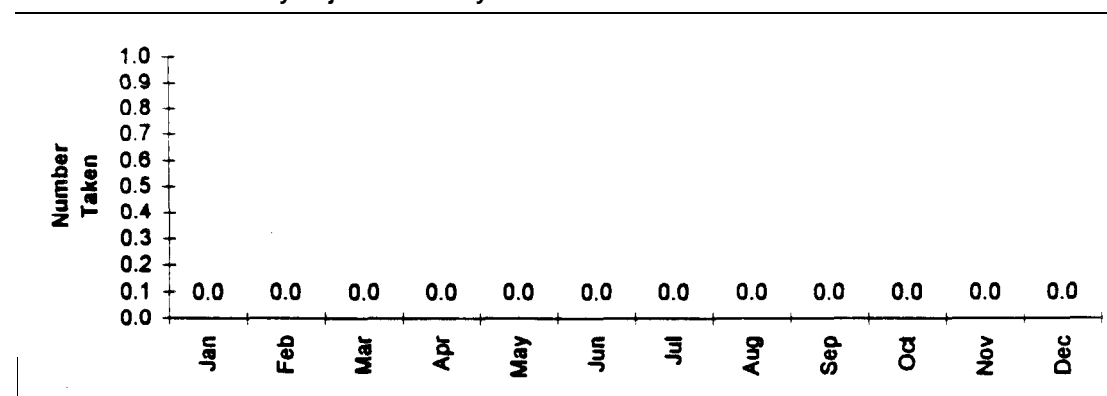
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

TABLE 118. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1993**SAMPLING DESIGN: CENSUS**

Total Native Households	15
Surveyed Households	15
Sampling Fraction	100.0%
Sample Household Member	40
Estimated Household Members	40.0

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	13.3%
Hunted	20.0%
Harvested	6.7%
Received	6.7%
Gave Away	6.7%

SPOTTED SEAL HARVEST INFORMATION**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	2.0
Total Number Struck and Lost	0.0
Total Number Taken	2.0
Number Harvested Per Capita	0.05

SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Cum. Take (X)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

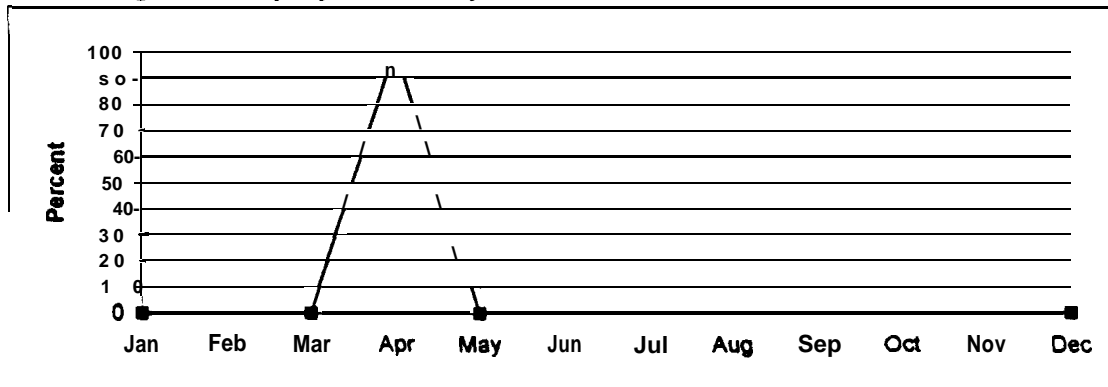
SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	100.0%	2.0	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.0	100.0%

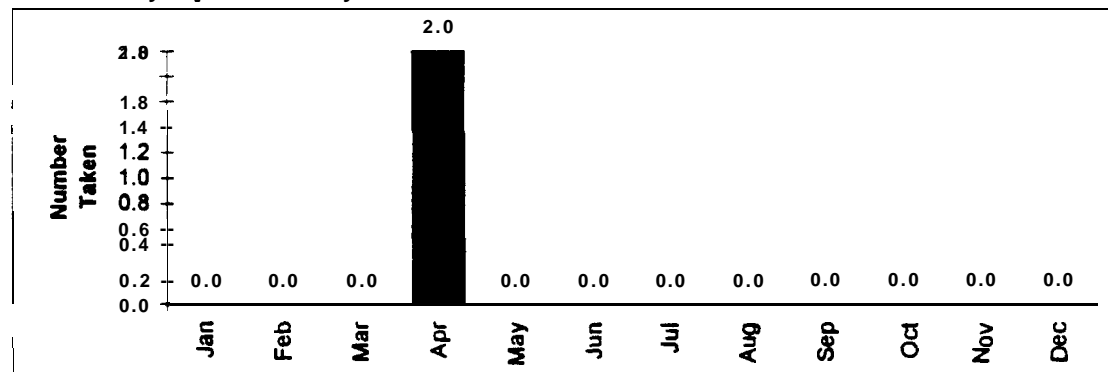
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

FIGURE 118. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: CLARK'S POINT, 1993

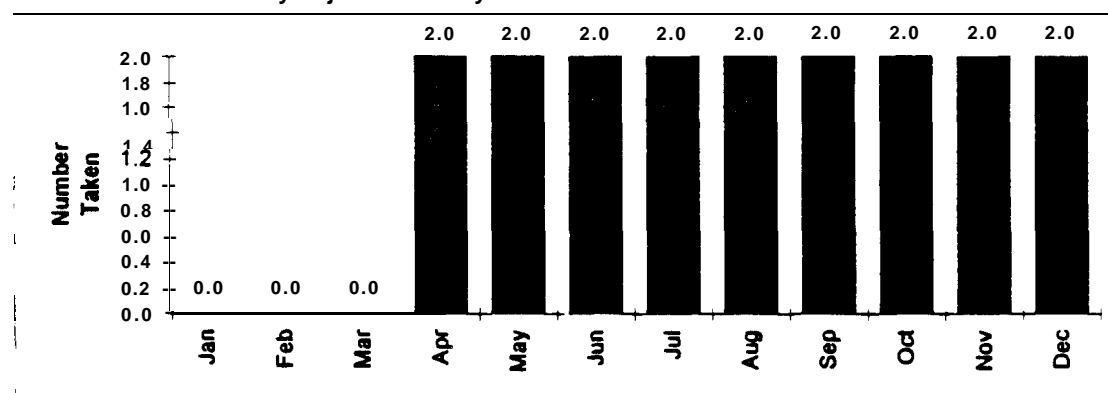
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1994.

TABLE 119. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1993**SAMPUNG DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	24	432	456
Surveyed Households	23	29	52
Sampling Fraction	95.8%	6.7%	11.4%
Sample Household Memben	84	95	179
Estimated Household Members	87.7	1415.2	1502.8

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

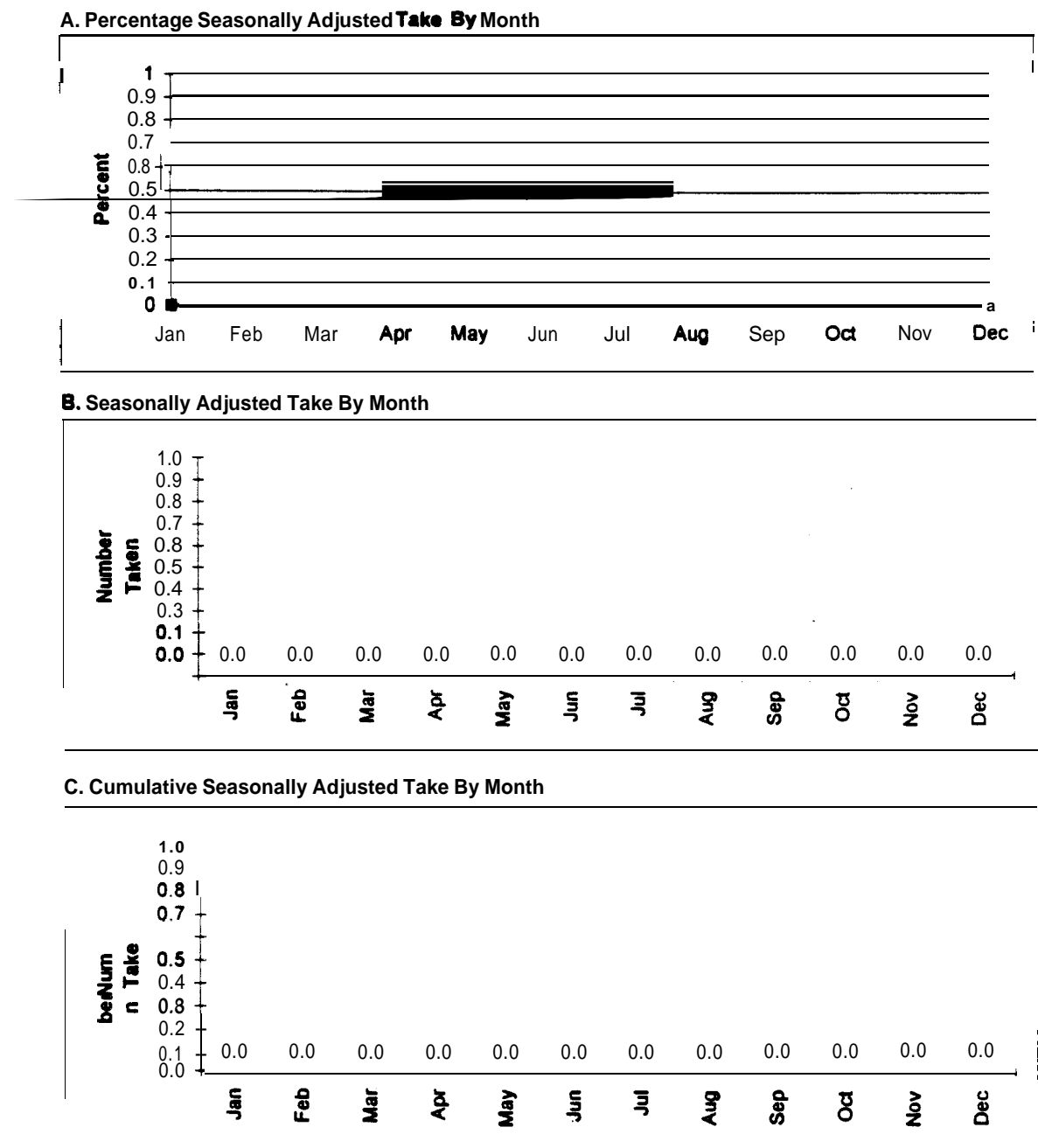
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	—	0.0	—
Adult Female	0	—	0.0	—
Adult Unknown Sex	0	—	0.0	—
Juvenile Male	0	—	0.0	—
Juvenile Female	0	—	0.0	—
Juvenile Unknown Sex	0	—	0.0	—
Pup Male	0	—	0.0	—
Pup Female	0	—	0.0	—
Pup Unknown Sex	0	—	0.0	—
Male Unknown Age	0	—	0.0	—
Female Unknown Age	0	—	0.0	—
Unknown Sex and Age	0	—	0.0	—
Total	0	—	0.0	—

SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

FIGURE 119. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: DILLINGHAM, 1993



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

TABLE 120. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TARE ESTIMATES: DILLINGHAM, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	24	432	456
Sun/eyed Households	23	29	52
Sampling Fraction	95.8%	8.7%	11.4%
Sample Household Members	84	95	179
Estimated Household Members	87.7	1415.2	1502.8

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	29.8%
Hunted	6.0%
Harvested	8.0%
Received	24.0%
Gave Away	15.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	44.1
Total Number Struck and Lost	4.2
Total Number Taken	48.3
Number Harvested Per Capita	0.03

HARBOR SEAL AND SPOTTED SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	19	3	0	3	0	1	0	0	0	0	29
Struck and Lost	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total Take	0	0	3	19	3	0	7	0	1	0	0	0	0	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.1	19.8	3.1	0.0	17.0	0.0	1.0	0.0	0.0	0.0	0.0	44.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Total Take	0.0	0.0	3.1	19.8	3.1	0.0	21.2	0.0	1.0	0.0	0.0	0.0	0.0	48.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.1	19.8	3.1	0.0	17.0	0.0	1.0	0.0	0.0	0.0		44.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0		4.2
Total Take	0.0	0.0	3.1	19.8	3.1	0.0	21.2	0.0	1.0	0.0	0.0	0.0		48.3
Total Take (X)	0.0%	0.0%	6.5%	41.1%	6.5%	0.0%	43.8%	0.0%	2.2%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	3.1	23.0	26.1	26.1	47.2	47.2	48.3	4a.3	48.3	48.3		
Cum. Take (%)	0.0%	0.0%	6.5%	47.5%	54.0%	54.0%	97.8%	97.8%	100.0%	100.0%	100.0%	100.0%		

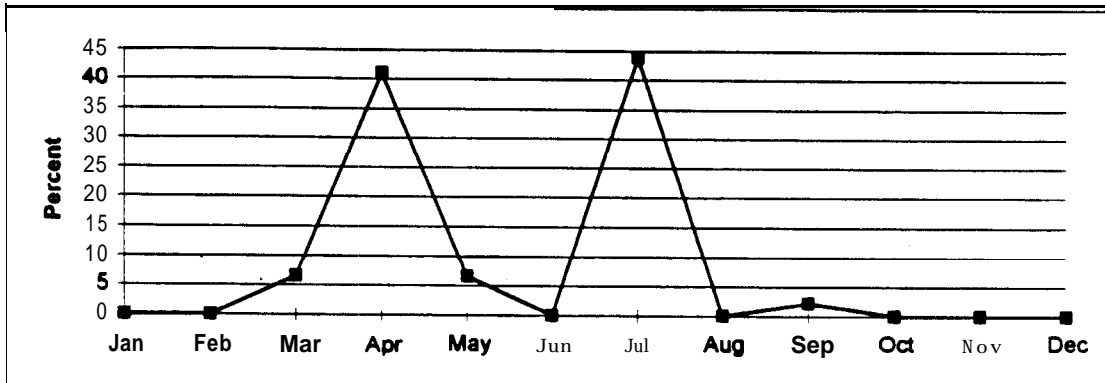
HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	3.4%	1.0	2.4%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	11	37.9%	25.3	57.4%
Juvenile Male	1	3.4%	1.0	2.4%
Juvenile Female	1	3.4%	1.0	2.4%
Juvenile Unknown Sex	11	37.9%	11.5	28.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	1	3.4%	1.0	2.4%
Unknown Sex and Age	3	10.3%	3.1	7.1%
Total	29	100.0%	44.1	100.0%

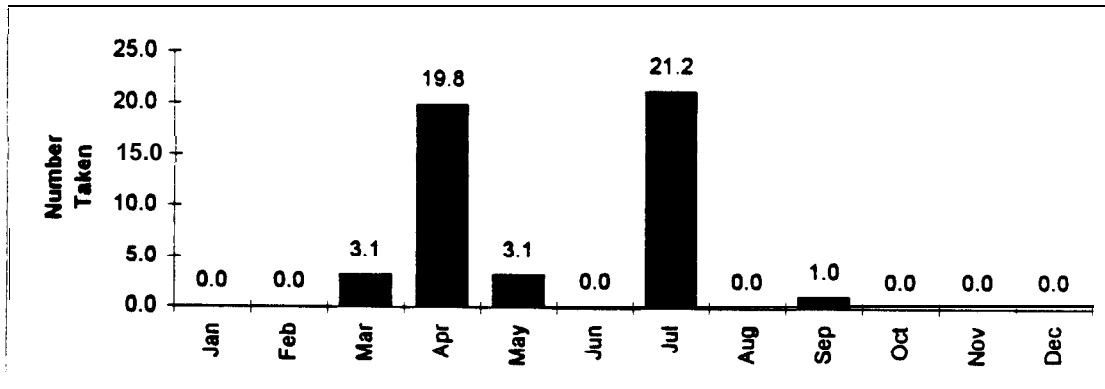
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

FIGURE 120. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: DILLINGHAM, 1 993

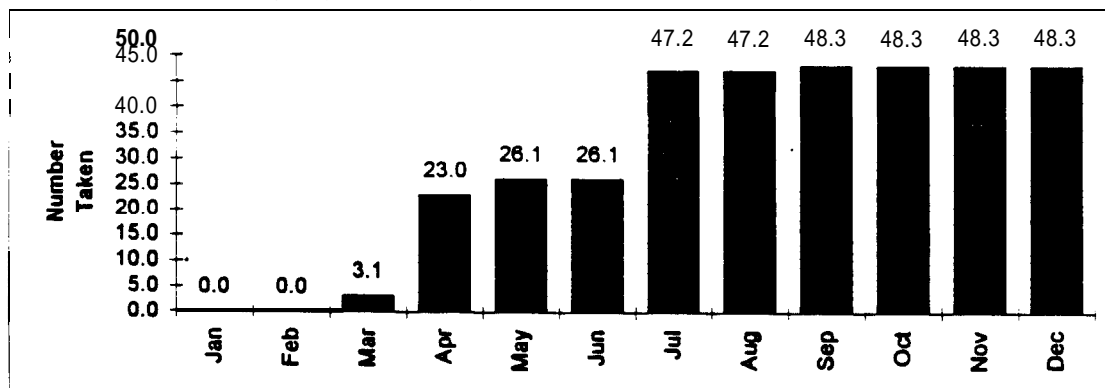
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

TABLE 121. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	24	432	456
Surveyed Households	23	29	52
Sampling Fmctiin	95.8%	6.7%	11.4%
Sample Household Members	84	95	179
Estimated Household Members	87.7	1415.2	1502.8

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	29.6%
Hunted	6.0%
Harvested	6.0%
Received	24.0%
Gave Away	15.6%

HARBOR SEAL HARVEST INFORMATION**Estimated Community Hwwst and Take (Expanded):**

Total Number Harvested	18.0
Total Number Struck and Lost	<u>4.2</u>
Total Number Taken	22.2
Number Harvested Per Capita	0.01

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	oot	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	3	0	1	0	0	0	0	4
Struck and Lost	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total Take	0	0	0	0	0	0	7	0	1	0	0	0	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	1.0	0.0	0.0	0.0	0.0	18.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	21.2	0.0	1.0	0.0	0.0	0.0	0.0	22.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	1.0	0.0	0.0	0.0		18.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0		4.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	21.2	0.0	1.0	0.0	0.0	0.0		22.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	0.0%	4.7%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	21.2	21.2	22.2	22.2	22.2	22.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	95.3%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

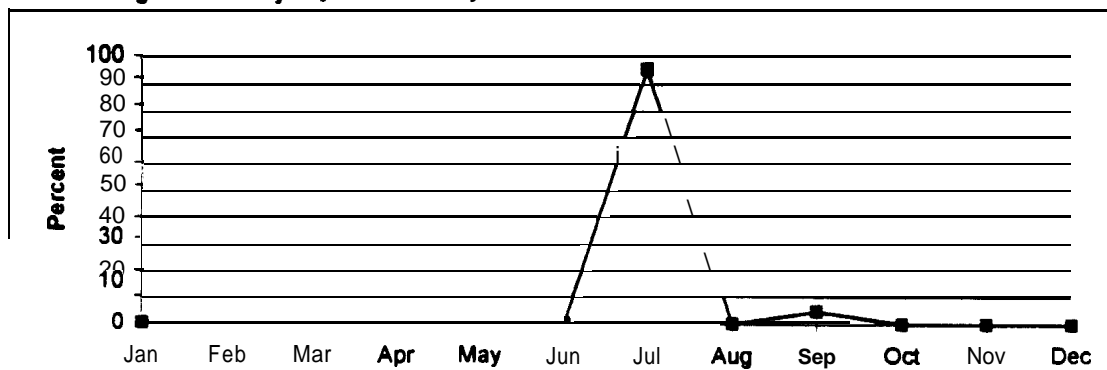
	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	1	25.0%	1.0	5.8%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	25.0%	14.9	82.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	25.0%	1.0	5.8%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	25.0%	1.0	5.8%
Total	<u>4</u>	<u>100.0%</u>	<u>18.0</u>	<u>100.0%</u>

SOURCE:

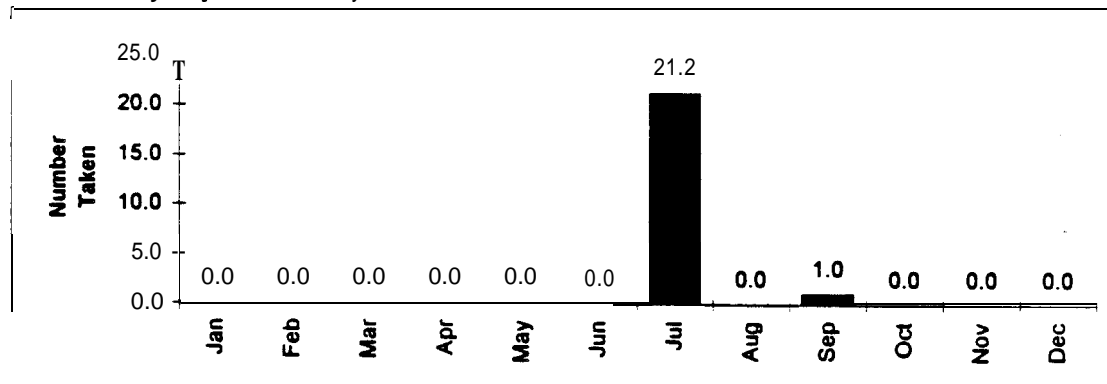
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

FIGURE 121. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: DILLINGHAM, 1993

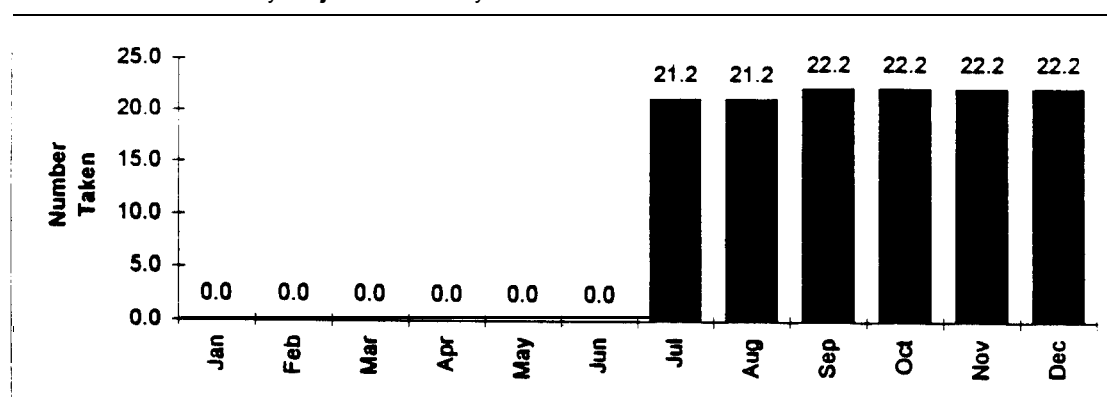
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

TABLE 122. **SPOTTED SEAL** (*Phoca largha*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1993**SAMPUNG DESIGN: TWO STRATA**

	Active	Other	Total	
Total Native Households	24	432	456	
Surveyed Households	23	29	52	
Sampling Fraction	95.8%	6.7%	11.4%	
Sample Household Members	84	95	1	7 9
Estimated Household Members	87.7	1415.2	1502.8	

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	29.8%
Hunted	6.0%
Harvested	0.0%
Received	24.0%
Gave Away	15.6%

SPOTTED SEAL HARVEST INFORMATION**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	26.1
Total Number Struck and Lost	0.0
Total Number Taken	26.1
Number Harvested Per Capita	0.02

SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	19	3	0	0	0	0	0	0	0	0	25
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	3	19	3	0	0	0	0	0	0	0	0	25
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.1	19.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	3.1	19.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.1	19.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	3.1	19.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
Total Take (%)	0.0%	0.0%	12.0%	76.0%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	3.1	23.0	26.1	26.1	26.1	28.1	20.1	26.1	28.1	26.1	26.1	26.1
Cum. Take (%)	0.0%	0.0%	12.0%	88.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

SPOTTED SEAL HARVEST BY AGE AND SEX

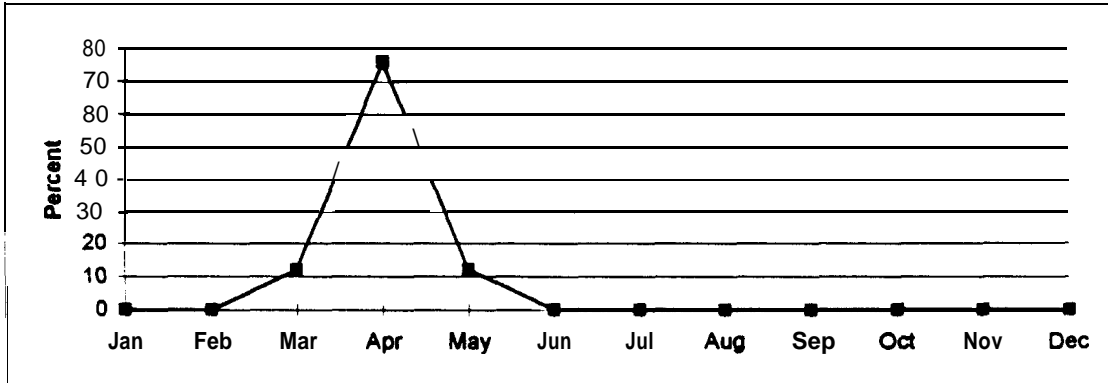
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	10	40.0%	10.4	40.0%
Juvenile Male	1	4.0%	1.0	4.0%
Juvenile Female	1	4.0%	1.0	4.0%
Juvenile Unknown Sex	10	40.0%	10.4	40.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	1	4.0%	1.0	4.0%
Unknown Sex and Age	2	8.0%	2.1	8.0%
Total	25	100.0%	26.1	100.0%

SOURCE:

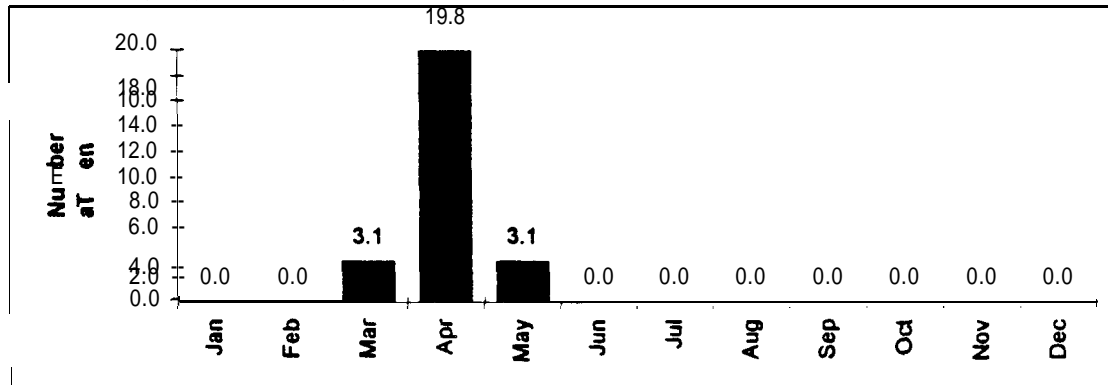
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

FIGURE 122. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: DILLINGHAM, 1993

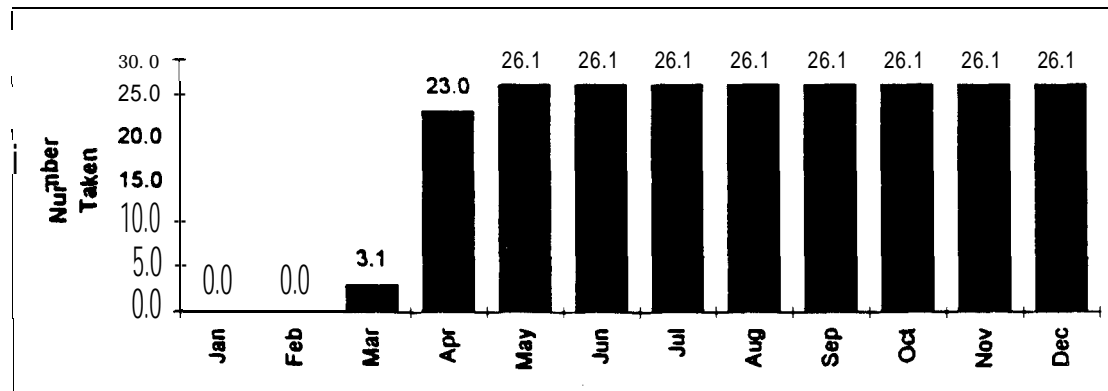
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1994.

TABLE 123. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	11	66	77
Surveyed Households	11	30	41
Sampling Fraction	100.0%	45.5%	53.296
Sample Household Members	56	140	196
Estimated Household Members	56.0	308.0	364.0

SEA LION HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	37.7%
Hunted	0.0%
Harvested	0.0%
Received	37.7%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

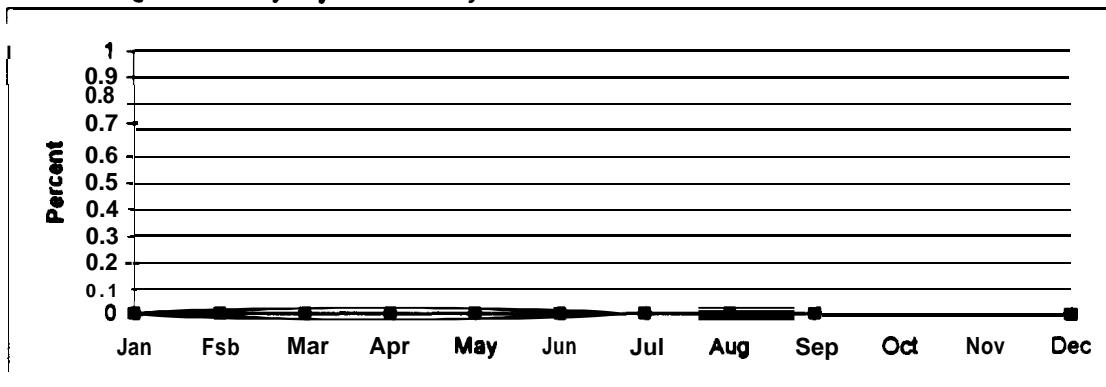
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

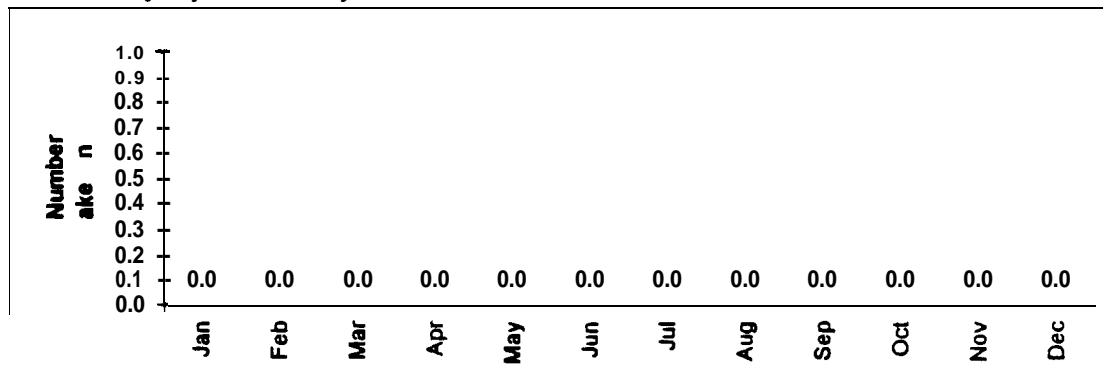
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

FIGURE 123. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: MANOKOTAK, 1993

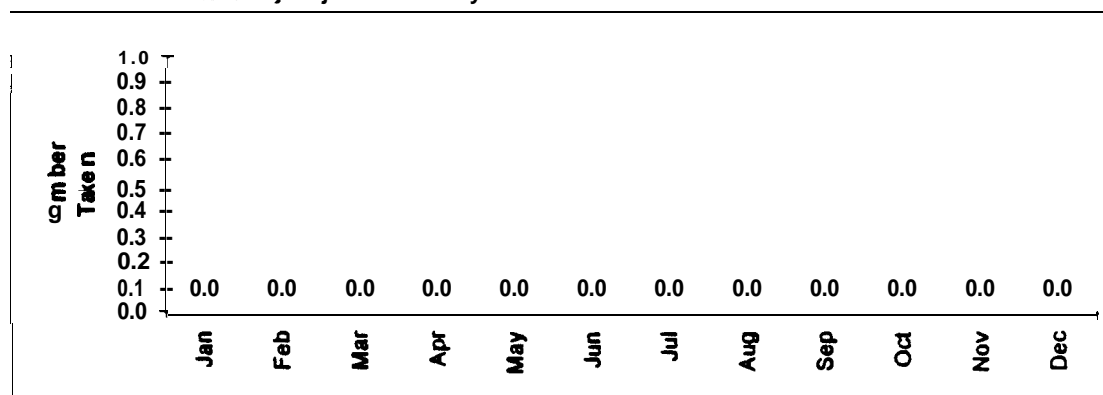
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

TABLE 124. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	11	66	77
Surveyed Households	11	30	41
Sampling Fraction	100.0%	45.5%	53.2%
Sample Household Members	56	140	196
Estimated Household Members	56.0	308.0	364.0

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

used	100.0%
Hunted	28.5%
Harvested	13.8%
Received	95.8%
Gave Away	53.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	10.6
Total Number Struck and Lost	0.0
Total Number Taken	10.6
Number Harvested Per Capita	0.03

HARBOR SEAL AND SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	3	0	1	0	0	2	0	0	0	0	0	7
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	3	0	1	0	0	2	0	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	4.2	0.0	1.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	10.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.2	4.2	0.0	1.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	10.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2				1.0									
Struck and Lost	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
Total Take	0.0	2.2	4.2	0.0	1.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	10.6
Total Take (%)	0.0%	20.8%	39.6%	0.0%	9.4%	0.0%	0.0%	30.2%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	2.2	6.4	6.4	7.4	7.4	7.4	10.6	10.6	10.6	10.6	10.6	10.6	
Cum. Take (%)	0.0%	20.8%	60.4%	60.4%	69.8%	69.8%	69.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

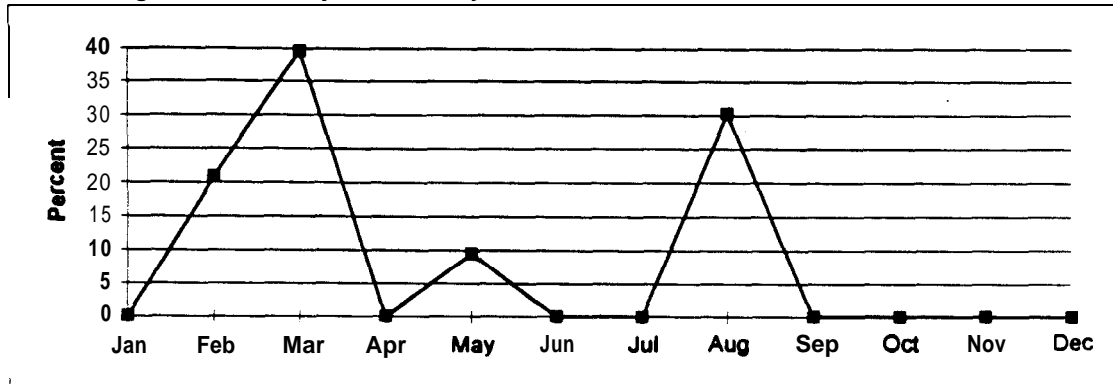
HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	4	57.1%	7.8	71.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	28.0%	2.0	18.9%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	14.3%	1.0	9.4%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	10.8	100.0%

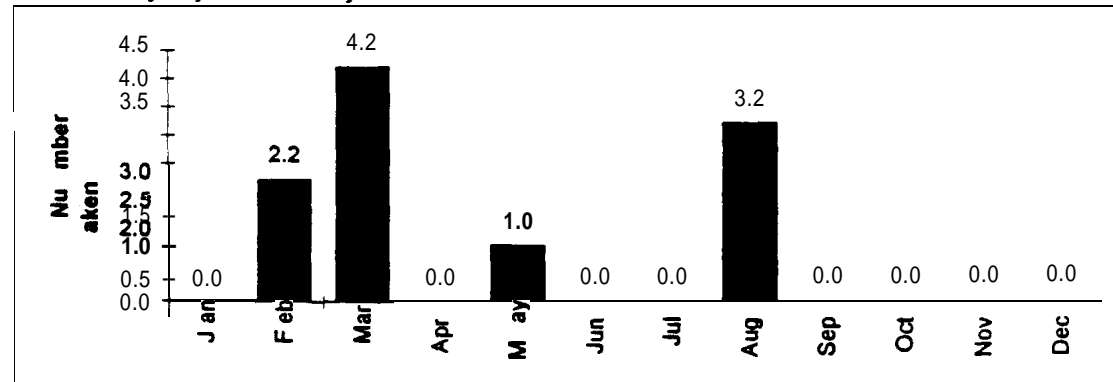
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

FIGURE 124. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: MANOKOTAK, 1993

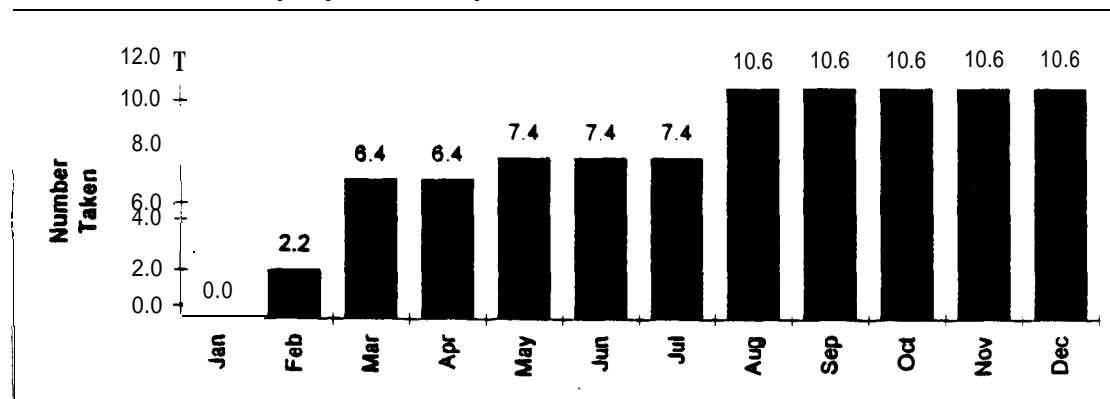
A. Percentage **Seasonally** Adjusted Take By Month



B. **Seasonally** Adjusted Take By Month



C. Cumulative **Seasonally** Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

TABLE 125. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	11	66	77
Surveyed Households	11	30	41
Sampling Fraction	100.0%	45.5%	53.2%
Sample Household Members	58	140	198
Estimated Household Members	58.0	308.0	364.0

ISSURIQ HARVEST AND USE INFORMATION

Percent Of Native Households:
 used 100.0%
 Hunted 26.5%
 Harvested 13.8%
 Received 95.8%
 Gave Away 532%

HARBOR SEAL HARVEST INFORMATION

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 3.2
 Total Number Struck and Lost 0.0
 Total Number Taken 3.2
 Number Harvested Per Capita 0.01

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100%	

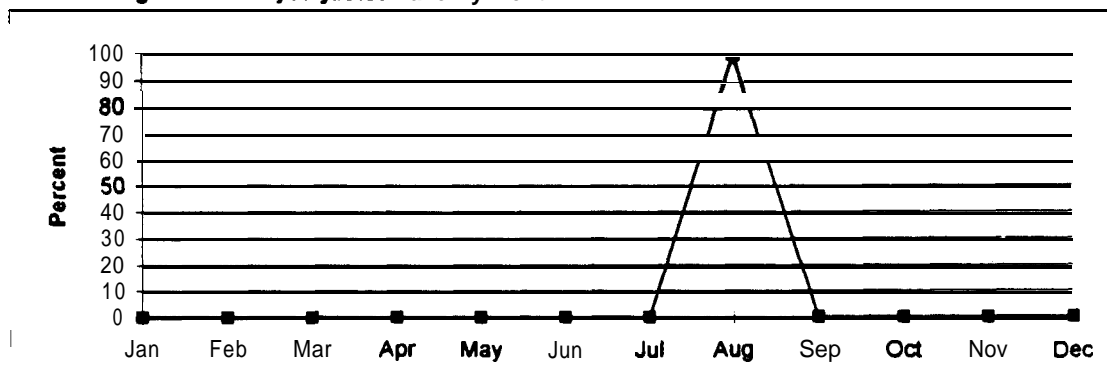
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	50.0%	2.2	68.8%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	50.0%	1.0	31.3%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	3.2	100.0%

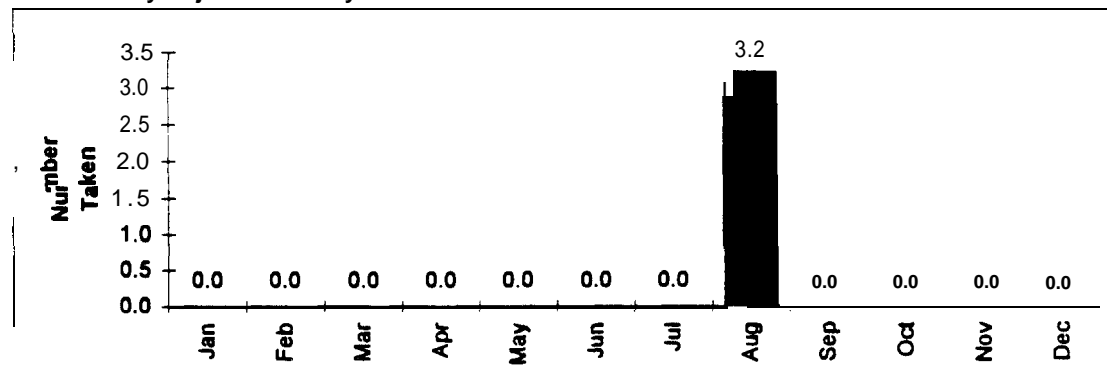
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

FIGURE 125. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: MANOKOTAK, 1993

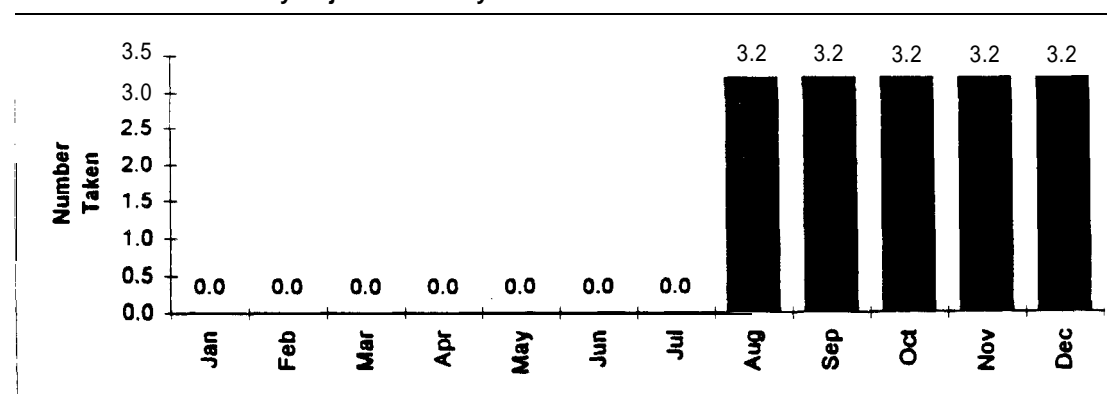
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council. 1994.

TABLE 126. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1993

SAMPLING DESIGN: TWO STRATA

		Active	Other	Total	
Total	Native	Households	11	66	77
	Surveyed	Households	11	30	41
	Sampling	Fraction	100.0%	45.5%	53.2%
	Sample	Household Members	56	140	196
	Estimated	Household Members	50.0	306.0	364.0

ISSURIQ HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	100.0%
Hunted	26.5%
Harvested	13.0%
Received	95.6%
Gave Away	53.2%

SPOTTED SEAL HARVEST INFORMATION

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	7.4
Total Number Struck and Lost	0.0
Total Number Taken	7.4
Number Harvested Per Capita	0.02

SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Unknown Dec Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)													
Harvest	0	1	3	0	1	0	0	0	0	0	0	0	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0
TOW Take	0	1	3	0	1	0	0	0	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (MPANDEO)													
Harvest	0.0	2.2	4.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.2	4.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	2.2	4.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.2	4.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
Total Take (%)	0.0%	28.7%	56.8%	0.0%	13.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	2.2	6.4	a.4	7.4	7.4	t.4	7.4	7.4	7.4	7.4	7.4	
Cum. Take (%)	0.0%	29.7%	86.5%	86.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

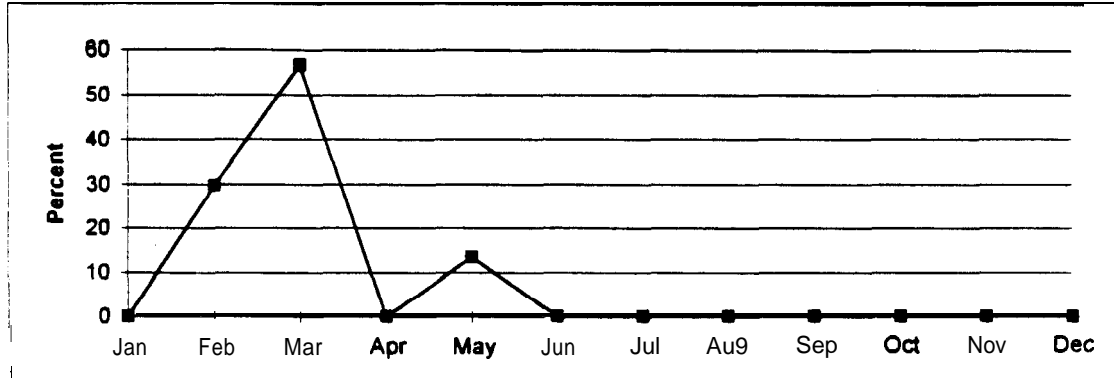
SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	3	00.0%	5.4	73.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	40.0%	2.0	27.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	5	100.0%	a.4	100.0%

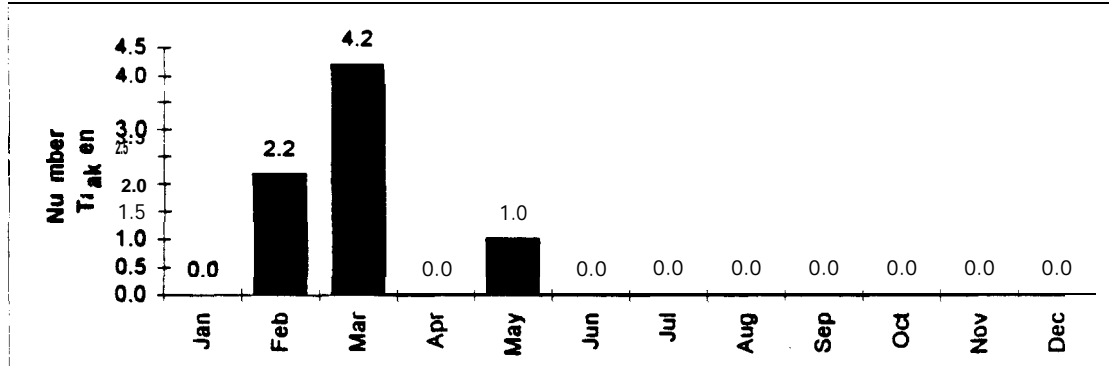
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

FIGURE 126. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: MANOKOTAK, 1993

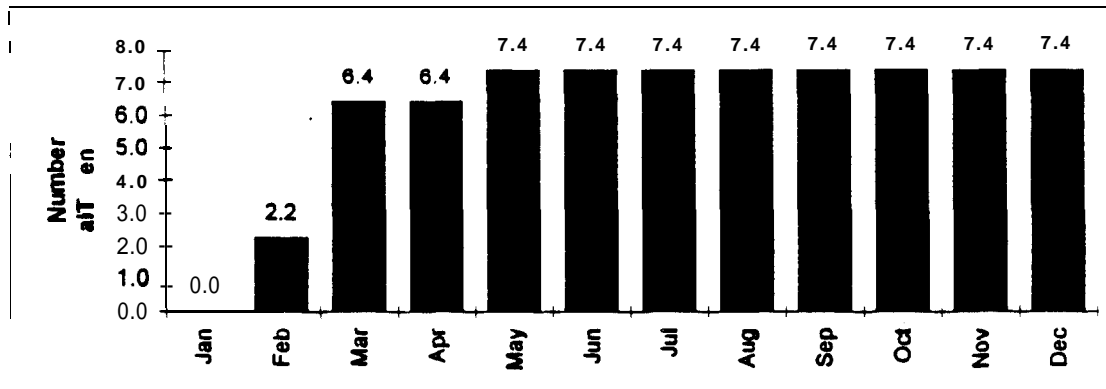
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1994.

TABLE 127. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE **ESTIMATES**: TOGIK. 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	3	8	116
Surveyed Households	33	34	67
Sampling Fraction	91.7%	42.5%	57.8%
Sample Household Members	159	102	321
Estimated Household Members	173.5	381.2	554.6

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:
 used 5.0%
 Hunted 2.8%
 Harvested 1.9%
 Received 4.7%
 Gave Away 0.9%

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 3.3
 Total Number Struck and Lost 3.3
 Total Number Taken 6.5
 Number Harvested Per Capita 0.01

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	0	1	1	0	0	0	3
Struck and Lost	0	0	0	0	1	0	0	0	0	1	0	0	1	3
TOW Take	0	0	0	0	1	1	0	0	1	2	0	0	1	6
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	0.0	0.0	0.0	3.3
Struck and Lost	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	3.3
Total Take	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	1.1	2.2	0.0	0.0	1.1	6.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	0.0	0.0		3.3
Struck and Lost	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6	0.0	0.0		3.3
Total Take	0.0	0.0	0.0	0.0	1.6	1.1	0.0	0.0	1.1	2.7	0.0	0.0		6.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	16.7%	0.0%	0.0%	16.7%	41.7%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	1.6	2.7	2.7	2.7	3.8	6.5	6.5	6.5		
Cum. Take (X)	0.0%	0.0%	0.0%	0.0%	25.0%	41.7%	41.7%	41.7%	58.3%	100.0%	100.0%	100.0%		

SEA LION HARVEST BY AGE AND SEX

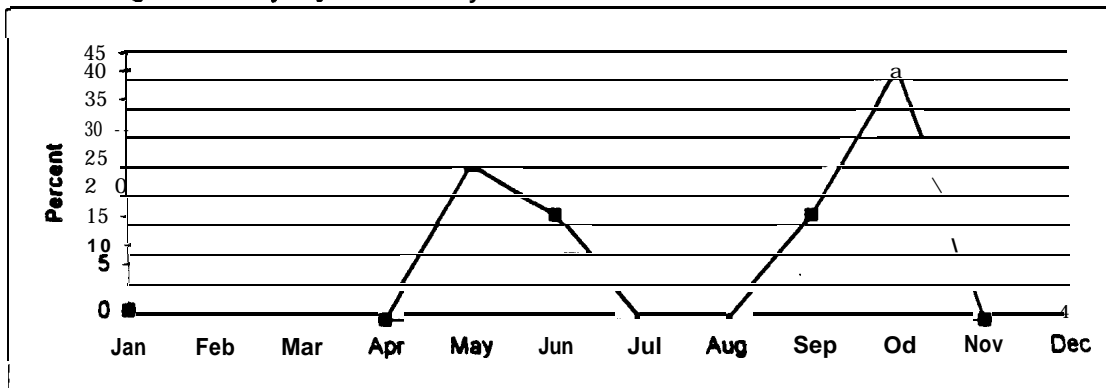
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	33.3%	1.1	33.3%
Juvenile Male	1	33.3%	1.1	33.3%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	33.3%	1.1	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.3	100.0%

SOURCE:

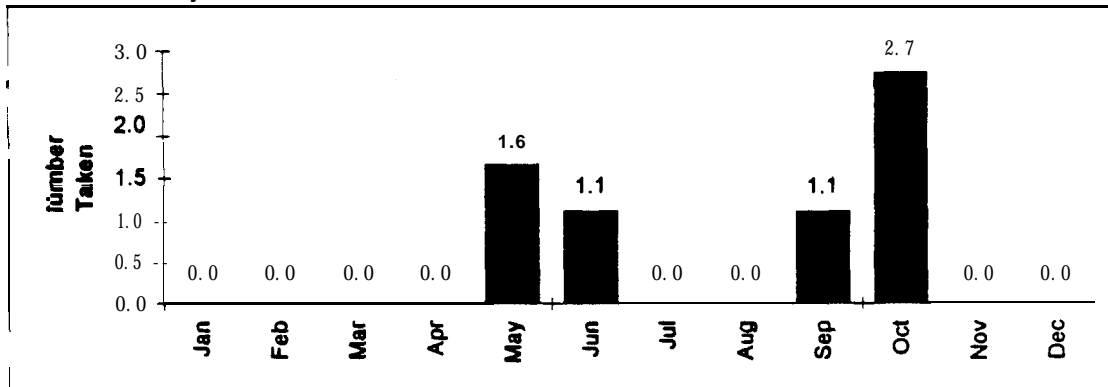
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

FIGURE 127. SEA LION (*Eumatopias jubatus*) TAKE ESTIMATES: **TOGIAK**, 1993

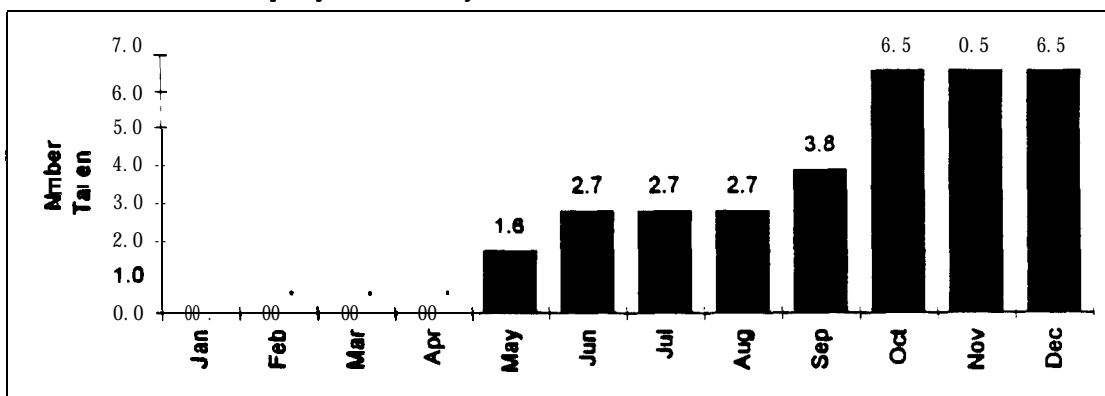
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

TABLE 129. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: TOGIAK, 1993

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	36	80	116
Surveyed Households	33	34	67
Sampling Fraction	91.7%	42.5%	57.8%
Sample Household Member	9	159	168
Estimated Household Member	9	173.5	182.5

HARBOR SEAL AND SPOTTED SEAL HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	72.2%
Hunted	01.3%
Harvested	49.2%
Received	54.4%
Gave Away	43.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	199.6
Total Number Struck and Lost	64.9
Total Number Taken	264.5
Number Harvested Per Capita	0.38

HARBOR SEAL AND SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	6	8	18	21	30	4	0	4	9	10	17	12	0	139
Struck and Lost	0	1	3	1	5	1	0	2	7	10	6	3	2	41
Total Take	6	9	21	22	36	5	0	6	16	20	23	15	2	180
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.3	10.0	23.4	26.7	45.3	5.6	0.0	6.9	12.3	13.4	27.4	18.1	0.0	199.6
Struck and Lost	0.0	1.1	3.3	1.1	6.0	1.1	0.0	3.4	10.2	16.0	11.6	4.5	4.7	64.9
Total Take	10.3	11.1	26.7	27.6	53.3	6.7	0.0	10.3	22.5	29.4	39.0	22.7	4.7	264.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.3	10.0	23.4	26.7	45.3	5.6	0.0	6.9	12.3	13.4	27.4	18.1	0.0	199.6
Struck and Lost	0.0	1.1	3.3	1.1	6.0	1.1	0.0	3.4	10.2	16.0	11.6	4.5	4.7	64.9
Total Take	10.3	11.1	26.7	27.6	53.3	6.7	0.0	10.3	22.5	29.4	39.0	22.7	4.7	264.5
Total Take (X)	3.9%	4.2%	10.2%	10.5%	20.4%	2.6%	0.0%	4.0%	8.8%	11.6%	15.1%	0.7%		100%
Cumulative Take	10.3	21.5	46.4	76.3	130.3	137.1	137.1	147.7	171.0	201.6	241.5	264.5		
Cum. Take (%)	3.9%	6.1%	18.3%	28.9%	49.2%	51.8%	51.8%	55.8%	64.6%	70.2%	91.3%	100.0%		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY AGE AND SEX

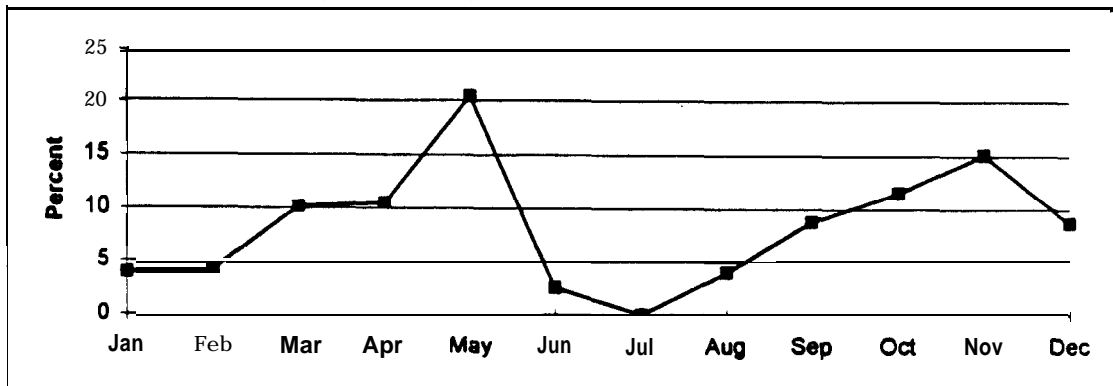
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	35	25.2%	50.8	25.5%
Adult Female	14	10.1%	19.1	9.5%
Adult Unknown Sex	48	33.1%	71.8	35.9%
Juvenile Male	10	7.2%	14.7	7.4%
Juvenile Female	9	8.5%	12.3	8.2%
Juvenile Unknown Sex	20	14.4%	24.3	12.2%
Pup Male	1	0.7%	2.4	1.2%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	2.9%	4.4	2.2%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	139	100.0%	199.6	100.0%

SOURCE:

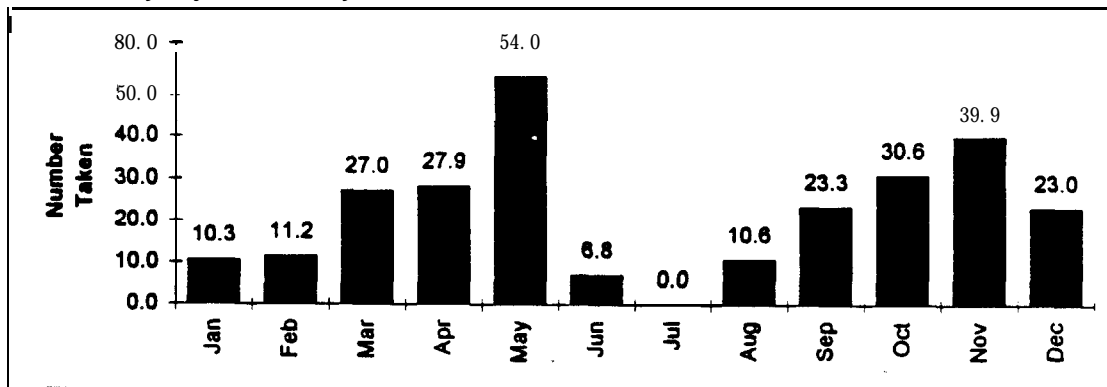
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

FIGURE 128. HARBOR SEAL AND SPOTTED SEAL (*Phoca vitulina*) TAKE ESTIMATES: TOGIAK, 1993

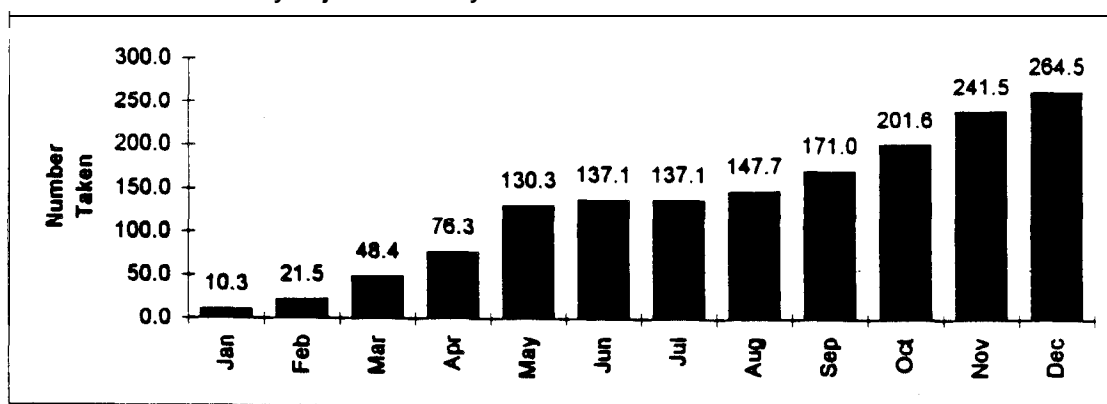
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

TABLE 129. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: TOGIAC, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	36	80	116
Surveyed Households	33	34	67
Sampling Fraction	91.796	42.5%	57.8%
Sample Household Members	159	162	321
Estimated Household Members	173.5	381.2	554.6

ISSURIQ HARVEST AND USE INFORMATION**Percent Of Native Households:**

Used	72.2%
Hunted	61.3%
Harvested	49.2%
Received	34.4%
Gave Away	43.1%

HARBOR SEAL HARVEST INFORMATION**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	24.9
Total Number Struck and Lost	14.7
Total Number Taken	39.8
Number Harvested Per Capita	0.04

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST MD TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	4	0	4	9	0	0	0	0	17
Struck and Lost	0	0	0	0	0	1	0	2	7	0	0	0	0	10
Total Take	0	0	0	0	0	5	0	6	16	0	0	0	0	27
ESTIMATED HARVEST MD TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	5.6	0.0	6.9	12.3	0.0	0.0	0.0	0.0	24.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	10.2	0.0	0.0	0.0	0.0	14.7
Total Take	0.0	0.0	0.0	0.0	0.0	6.7	0.0	10.3	22.5	0.0	0.0	0.0	0.0	39.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	5.6	0.0	6.0	12.3	0.0	0.0	0.0		24.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	10.2	0.0	0.0	0.0		14.7
Total Take	0.0	0.0	0.0	0.0	0.0	6.7	0.0	10.3	22.5	0.0	0.0	0.0		39.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	17.0%	0.0%	26.1%	66.9%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	6.7	6.7	17.0	39.6	36.6	39.6	39.6		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	17.0%	17.0%	43.1%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

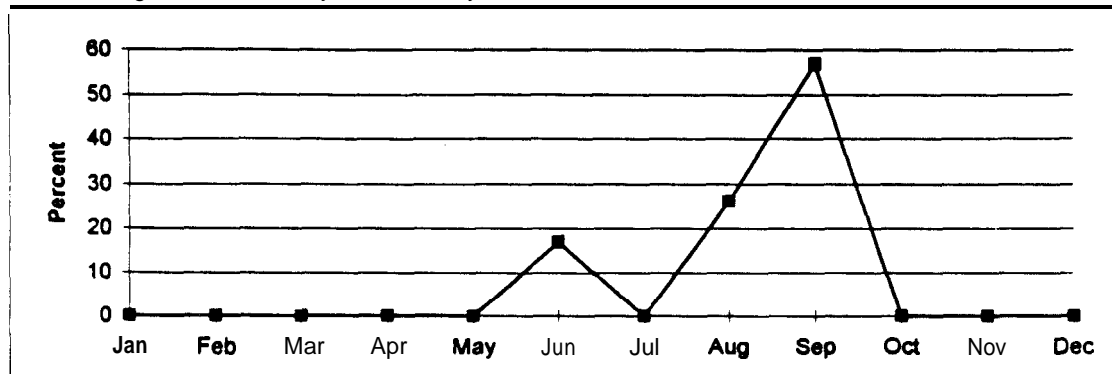
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	11.8%	4.7	18.9%
Adult Female	2	11.8%	2.2	8.8%
Adult Unknown Sex	8	47.1%	10.0	40.2%
Juvenile Male	3	17.6%	4.5	18.2%
Juvenile Female	1	5.9%	2.4	9.5%
Juvenile Unknown Sex	1	5.9%	1.1	4.4%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	17	100.0%	24.9	100.0%

SOURCE:

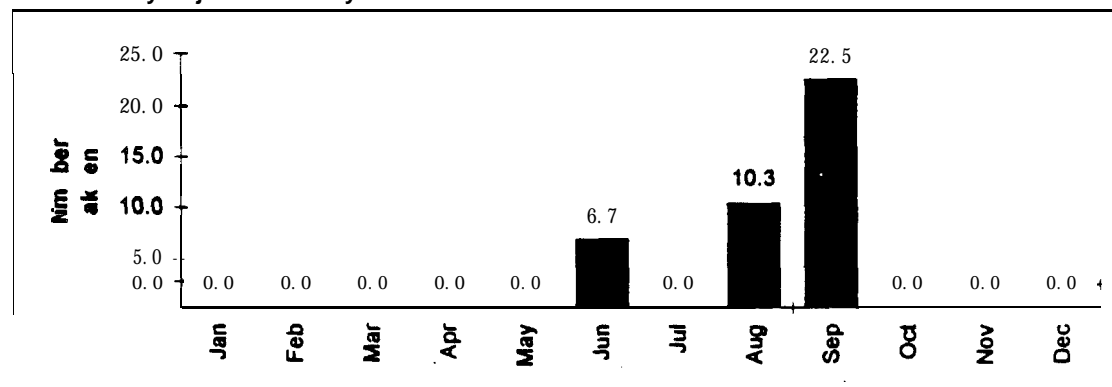
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

FIGURE 129. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: TOGIAK, 1993

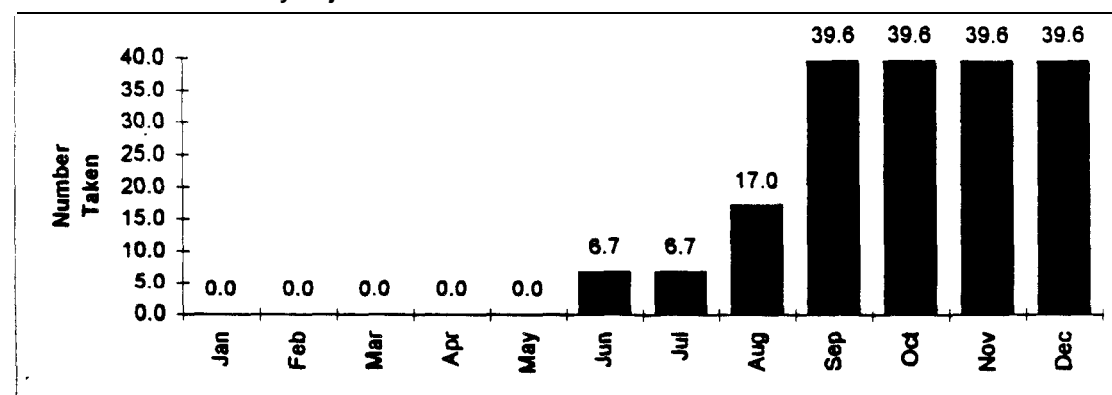
A. Percentage **Seasonally** Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

TABLE 130. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: TOGIAC, 1993**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	36	80	116
Surveyed Households	33	34	67
Sampling Fraction	91.7%	42.5%	57.9%
Sample Household Members	159	192	321
Estimated Household Members	173.5	381.2	554.6

ISSURIQ HARVEST AND USE INFORMATION

Percent Of Native Households:
 Used 72.2%
 Hunted 61.3%
 Harvested 49.2%
 Received 54.4%
 Gave Away 43.1%

SPOTTED SEAL HARVEST INFORMATION

Estimated Community Harvest and Take (Expanded):
 Total Number Harvested 174.7
 Total Number Struck and Lost 50.2
 Total Number Taken 225.0
 Number Harvested Per Capita 0.32

SPOTTED SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	6	8	18	21	30	0	0	0	0	10	17	12	0	122
Struck and Lost	0	1	3	1	5	0	0	0	0	10	6	3	2	31
Total Take	6	9	21	22	35	0	0	0	0	20	23	15	2	153
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.3	10.0	23.4	26.7	45.3	0.0	0.0	0.0	0.0	13.4	27.4	18.1	0.0	174.7
Struck and Lost	0.0	1.1	3.3	1.1	8.0	0.0	0.0	0.0	0.0	16.0	11.6	4.5	4.7	50.2
Total Take	10.3	11.1	a. 7	27.8	53.3	0.0	0.0	0.0	0.0	a. 4	39.0	22.7	4.7	225.0
ESTIMATE (SEASONALLY ADJUSTED HARVEST MO TAKE BY COMMUNITY (EXPANDED))														
Harvest	10.3	10.0	23.4	28.7	48.3	0.0	0.0	0.0	0.0	13.4	27.4	18.1		174.7
Struck and Lost	0.0	1.2	3.6	1.2	8.8	0.0	0.0	0.0	0.0	17.8	12.11	5.0		50.2
Total Take	10.3	11.2	27.0	27.9	34.2	0.0	0.0	0.0	0.0	31.0	4a. 2	23.1		225.0
Total Take (%)	4.6%	5.0%	12.0%	12.4%	24.1%	0.0%	0.0%	0.0%	0.0%	13.8%	17.2%	10.3%		100%
Cumulative Take	10.3	21.5	48.6	76.5	130.6	130.6	130.6	130.6	130.6	161.6	201.8	225.0		
Cum. Take (%)	4.6%	9.6%	21.6%	34.0%	58.1%	58.1%	58.1%	58.1%	58.1%	71.9%	89.7%	100.0%		

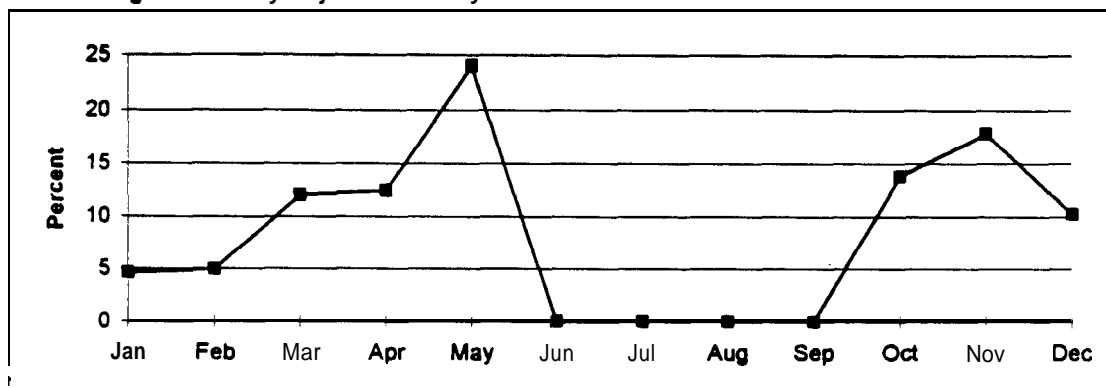
SPOTTED SEAL HARVEST BY AGE AND S&X

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	33	27.0%	46.1	20.4%
Adult Female	12	9.8%	16.9	9.7%
Adult Unknown Sex	38	31.1%	61.6	35.3%
Juvenile Male	7	5.7%	10.2	5.8%
Juvenile Female	8	6.6%	10.0	5.7%
Juvenile Unknown Sex	19	15.8%	23.3	13.3%
Pup Male	1	0.8%	2.4	1.3%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	3.3%	4.4	2.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	122	100.0%	174.7	100.0%

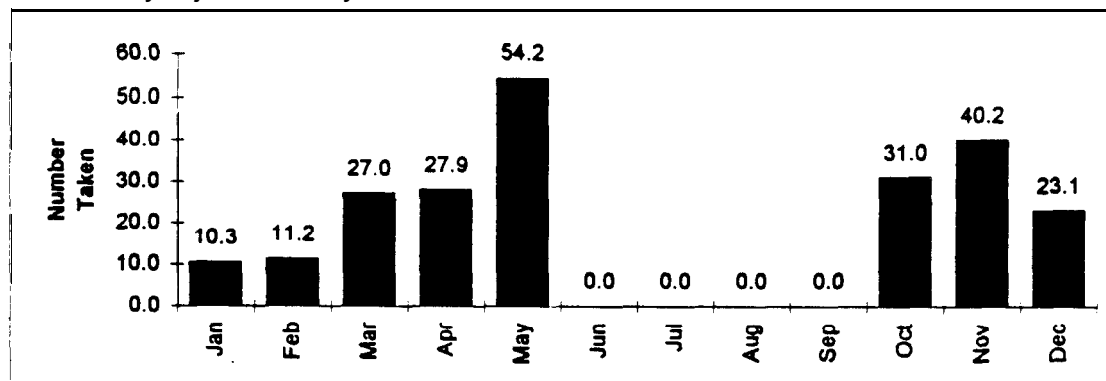
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

FIGURE 130. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: TOGIAC, 1993

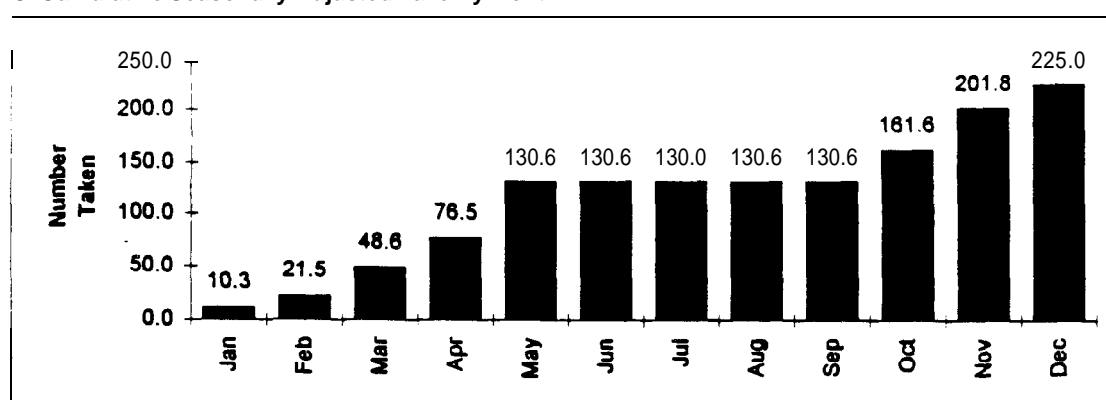
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1994.

